

## **APPENDIX B**

### **Automotive Coating Materials Safety Data Sheet**

Vol 16/162

# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LEMANS BLUE METALLIC  
PRODUCT CODE: 333L039

HMS CODES: H F R P  
2 3 0 6

## SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: VALSPAR REFINISH  
ADDRESS: 210 CROSBY STREET, PICAYUNE, MS 39466  
EMERGENCY PHONE: (800)228-5635 Ext. 47 INFORMATION PHONE: (601) 798-4731

DATE OF PRINTING: 01/25/00 NAME OF PREPARER: TIM HERRINGTON

## SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mm Hg @ 68°F	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
Polyester resin D	NA	None	None		N/A	-N/A-
ALMYD RESIN C	NA	None	None		N/A	-N/A-
Copper phthalocyanine blue A	147-14-8	15 mg/m3	10 mg/m3		N/A	-N/A-
Cellulose acetate butyrate	9004-36-8	none	none		N/A	-N/A-
Aldehyde resin A	NA	none	none		N/A	-N/A-
Ethyl acetate	141-78-6	400 PPM	400 PPM		75.0	68F -N/A-
N-butyl acetate	123-86-4	150 PPM	150 PPM		8.4	68F -N/A-
Acetone, C	67-64-1 ?	1000 PPM	750 PPM		184.0	68F -N/A-
VMMP naphtha	64742-89-8	300 PPM	300 PPM		5.2	66F -N/A-
*Ethylbenzene	100-41-4 /	100 PPM	100 PPM		8.5	68F 3.51
*Toluene 1551	108-88-3 /	200 PPM	100 PPM		26.7	68F 14
*Xylene	1330-20-7 /	100 ppm	100 ppm		25.0	77F 18

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 133 to 392 Deg F SPECIFIC GRAVITY (H2O=1) 0.9592  
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER  
COATING V.O.C.: 5.08 LB/GL ( 608 G/L) MAT. V.O.C.: 4.84 LB/GL ( 581 G/L)  
SOLUBILITY IN WATER: NEGLIGIBLE  
APPEARANCE AND ODOR: OPAQUE VISCOUS LIQUID WITH ORGANIC SOLVENT ODOR

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 4 Deg F METHOD USED: T.C.C.  
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 0.9% UPPER: 13.0%

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

### SPECIAL FIREFIGHTING PROCEDURES

Firefighters should wear self-contained breathing apparatus. Although water may be ineffective, a water fog may be used to cool closed containers that are exposed to heat.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE  
CONDITIONS TO AVOID

None known.

INCOMPATABILITY (MATERIALS TO AVOID)

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

BY FIRE: Normal products of incomplete combustion

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Dizziness, headache, nausea, shortness of breath, solvent taste in the mouth, narcosis, euphoria, or unconsciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Burning sensation with reddening of the eyes, irritation, rash or burning sensation on the skin.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin or dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Gastrointestinal distress and symptoms of systemic poisoning

HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE--Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident. CHRONIC--Narcosis, kidney and liver disfunction with possible central nervous system effects.

CARCINOGENICITY: NTP? Yes IARC MONOGRAPHS? No OSHA REGULATED? No

Check in Section II - HAZARDOUS INGREDIENTS above for the presence of either LEAD CHROMATE or LEAD MOLYBDATE in this product.

If these materials are absent, then none of the components of this formulation are listed carcinogens.

CALIFORNIA PROPOSITION 65 WARNING STATEMENT: Check in Section II - Hazardous Ingredients above for the characters [65] in the name of a hazardous component. If these characters are present then this component is known to the state of California to be a carcinogen, teratogen or reproductive toxin. However, it is not possible to be certain that a particular chemical on the Proposition 65 list is not present in some very small but detectable amount.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Respiratory difficulty or pre-existing skin sensitization.

EMERGENCY AND FIRST AID PROCEDURES

FOR EYES--Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. FOR SKIN--Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse. IF AFFECTED BY INHALATION OF VAPORS--Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. IF SWALLOWED--Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbent and dispose in accordance with local regulations for ignitable hazardous waste.

## WASTE DISPOSAL METHOD

Dispose in accordance with local regulations for ignitable hazardous waste.

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool dry place. Outside or detached storage is preferable. Inside should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

## OTHER PRECAUTIONS

If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

## ===== SECTION VIII - CONTROL MEASURES =====

## RESPIRATORY PROTECTION

Combination vapor-particulate respirator for use in solvent-containing environments is recommended if ventilation is inadequate.

## VENTILATION

Local ventilation should be sufficient to reduce airborne vapor concentrations to below LEL and TLV to be considered adequate.

## PROTECTIVE GLOVES

Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

## EYE PROTECTION

Chemical splash goggles are recommended if potential for splashing into the eyes is high.

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Solvent resistant clothing is recommended as needed to avoid skin contact.

## WORK/HYGIENIC PRACTICES

Wash hands thoroughly after handling product and before smoking or eating.

## ===== SECTION IX - DISCLAIMER =====

## DISCLAIMER

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as an express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.

# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DIAMOND BLUE METALLIC  
PRODUCT CODE: 533L381

HMIS CODES: H F R P  
1 0 0 B

## SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: VALSPAR REFINISH  
ADDRESS: 210 CROSBY STREET, PICAYUNE, MS 39466  
EMERGENCY PHONE : (800)228-5635 Ext. 47 INFORMATION PHONE: (601) 798-4731

DATE REVISED : 02/01/95 CONTACT NAME : TIM HERRINGTON  
DATE OF PRINTING: 01/25/00

## SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
Dipropylene glycol monomethyl ether/dpm	/ 34590-94-8	100 PPM	100 PPM	150 STEL V	0.6 77F	-N/A-

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 212 F INITIAL Deg F SPECIFIC GRAVITY (420=1) 1.1  
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER  
COATING V.O.C.: 1.89 LB/GL ( 226 G/L) MAT. V.O.C.: 0.36 LB/GL ( 42 G/L)  
SOLUBILITY IN WATER: NEGLIGIBLE  
APPEARANCE AND ODOR: OPAQUE VISCOUS LIQUID WITH SLIGHT AMINE ODOR

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: OVER 200 F METHOD USED: CLOSED CUP  
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: N/A UPPER: N/A  
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG  
SPECIAL FIREFIGHTING PROCEDURES  
Firefighters should wear self-contained breathing apparatus.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

## SECTION V - REACTIVITY DATA

STABILITY: STABLE  
CONDITIONS TO AVOID  
None known.

INCOMPATIBILITY (MATERIALS TO AVOID)  
Strong oxidizing agents.

## HAZARDOUS DECOMPOSITION OR BYPRODUCTS

BY FIRE: Normal products of incomplete combustion.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

## INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Dizziness, headache, nausea, shortness of breath, solvent taste in the mouth, narcosis, euphoria, or unconsciousness.

## SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Burning sensation with reddening of the eyes, irritation, rash or burning sensation on the skin.

## SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin or dermatitis.

## INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Gastrointestinal distress and symptoms of systemic poisoning.

## HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE--Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident. CHRONIC--Narcosis, kidney and liver disfunction with possible central nervous system effects.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No  
CALIFORNIA PROPOSITION 65 WARNING STATEMENT: Check in Section II of this MSDS for hazardous ingredients whose name contains the characters 1650. These ingredients are listed or have trace components that are listed on California Prop 65 lists.

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Respiratory difficulty or pre-existing skin sensitization.

## EMERGENCY AND FIRST AID PROCEDURES

FOR EYES--Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. FOR SKIN--Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse. IF AFFECTED BY INHALATION OF VAPORS--Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. IF SWALLOWED--Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE. =====

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Provide adequate ventilation. Absorb with an inert absorbant and dispose in accordance with local regulations for non-hazardous materials.

## WASTE DISPOSAL METHOD

No special disposal method is required. Normal product waste may be sewered to a public-owned treatment work in compliance with federal, state and local pretreatment requirements.

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool dry place outside the reach of children. Do not reuse empty product container for any purpose.

## OTHER PRECAUTIONS

If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

## ===== SECTION VIII - CONTROL MEASURES =====

## RESPIRATORY PROTECTION

Combination vapor-particulate respirator for use in solvent-containing environments is recommended if ventilation is inadequate.

## VENTILATION

Local ventilation should be sufficient to reduce airborne vapor concentrations to below LEL and TLV to be considered adequate.

## PROTECTIVE GLOVES

Recommended where skin contact is likely.

## EYE PROTECTION

Chemical splash goggles are recommended if potential for splashing into the eyes is high.

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Recommended as needed to avoid skin contact.

## WORK/HYGIENIC PRACTICES

Wash hands thoroughly after handling product and before smoking or eating.

## ===== SECTION IX - DISCLAIMER =====

## DISCLAIMER

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as an express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.

# M A T E R I A L   S A F E T Y   D A T A   S H E E T

2.1 VOC ACTIVATOR FOR AC-2135

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PRODUCT NAME: 2.1 VOC ACTIVATOR FOR AC-2135  
PRODUCT CODE: AK-21

HMIS CODES: H F R P  
2+2 1 K

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: VALSPAR REFINISH  
ADDRESS : 210 CROSBY ST.  
PICAYLNE, MS 39466

MEDICAL EMERGENCY : 888-345-5732      DATE PRINTED : 01/25/00  
TRANSPORTATION EMERGENCY: 888-748-5558      NAME OF PREPARER : Tim Herrington  
PRODUCT INFORMATION : 800-845-2500

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
Homopolymer of HDI ACGIH TLV: Not established OSHA PEL: Not established Other: 0.50 mg/m3 TWA; 1.00 mg/m3 STEL	29182-81-2	Unknown	
POSTE (PARACHLOROBENZOTRIFLUORIDE) OSHA PEL: NOT ESTD, ACGIH TLV: NOT ESTD, OTHER: 25 ppm 8hr	98-56-6	5.3      68	
Hexamethylene diisocyanate (HDI) ACGIH TLV: 0.105 ppm TWA OSHA PEL: Not established Other: 0.02 mg/m3 C	622-06-0	Unknown	

\*\*\* NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT \*\*\*

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 282 deg F      SPECIFIC GRAVITY (H2O=1): 1.24  
VAPOR DENSITY: Heavier than air      EVAPORATION RATE: Slower than ether  
COATING V.O.C.: 0.00 lb/gal      MATERIAL V.O.C.: 0.00 lb/gal  
SOLUBILITY IN WATER: Negligible  
APPEARANCE AND ODOR: Opaque and/or translucent viscous liquid with organic solvent odor.

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 108 deg F      METHOD USED: TAGOC  
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .9      UPPER: 10.5

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical.

### SPECIAL FIREFIGHTING PROCEDURES

Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During a fire, isocyanate vapors and other irritating or highly toxic gases may be generated.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

## ===== SECTION V - REACTIVITY DATA =====

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**STABILITY:** Stable  
**CONDITIONS TO AVOID**  
None known

**INCOMPATIBILITY (MATERIALS TO AVOID)**  
Water, amines, strong bases, alcohols, metal compounds.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**  
BY HEAT & FIRE: Carbon dioxide, carbon monoxide, oxides of nitrogen, and traces of HCN and isocyanates monomer.

**HAZARDOUS POLYMERIZATION:** A polymerization may occur above 400F or if exposed to moisture or other materials that react with isocyanates.

## ===== SECTION VI - HEALTH HAZARD DATA =====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**  
Exposures above suggested limits can irritate mucous membranes in the respiratory tract causing runny nose, coughing, or shortness of breath. Certain individuals will react with asthma-like symptoms at very low exposures.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**  
Burning sensation with reddening of the eyes, irritation, rash, or burning sensation on the skin in unprotected areas.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**  
Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin, or dermatitis.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**  
Gastrointestinal distress with symptoms of systemic poisoning.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**  
ACUTE: Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident. An allergic respiratory reaction similar to an asthma attack can occur in some individuals with prolonged or repeated previous exposure or a large single exposure to isocyanate. Chronic: Narcosis, kidney and liver dysfunction with possible central nervous system effects.

**CARCINOGENICITY:** NTP CARCINOGEN: No    IARC MONOGRAPHS: No    OSHA REGULATED: No  
**CALIFORNIA PROPOSITION 65 STATEMENT:** Check Section II of this MSDS for hazardous ingredients whose name contains the characters [65]. These ingredients are listed or have trace components that are listed on California Proposition 65 lists.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**  
Respiratory difficulty or pre-existing skin sensitization, or previous acute allergic respiratory reaction to isocyanates.

**EMERGENCY AND FIRST AID PROCEDURES**  
**FOR EYES:** Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. **FOR SKIN:** Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse. **IF AFFECTED BY INHALATION OF VAPORS:** Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. **IF SWALLOWED:** Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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2.1 VOC ACTIVATOR FOR AC-2135

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## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbant and dispose in accordance with local regulations for ignitable hazardous waste.

### WASTE DISPOSAL METHOD

Dispose in accordance with local regulations for ignitable hazardous waste.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool dry place. Outside or detached storage is preferable. Inside storage should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

### OTHER PRECAUTIONS

If this product is combined with another component, or if additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

## ===== SECTION VIII - CONTROL MEASURES =====

### RESPIRATORY PROTECTION

Exhaust ventilation sufficient to keep airborne concentration of solvent, HDI and polyisocyanate below TLV's must be utilized. A respirator that is recommended for use in isocyanate-containing environments may also be necessary. When concentrations are not known, or work is in a confined space, the use of a positive air pressure respirator is mandatory.

### VENTILATION

Local ventilation should be sufficient to reduce airborne vapor concentrations to LEL, LEL and TLV to be considered adequate.

### PROTECTIVE GLOVES

Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

### EYE PROTECTION

Chemical splash goggles are highly recommended, particularly when potential for splashing into the eyes is high.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Solvent resistant clothing is recommended as needed to avoid skin contact.

### WORK/HYGIENIC PRACTICES

Wash hands thoroughly after handling product and before smoking or eating.

## ===== SECTION IX - DISCLAIMER =====

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as any express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.

# M A T E R I A L   S A F E T Y   D A T A   S H E E T

2.1 VOC PREMIUM CLEARCOAT

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PRODUCT NAME: 2.1 VOC PREMIUM CLEARCOAT  
PRODUCT CODE: AC-2135

HMIS CODES: H F R P  
2 3 0 6

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: VALEPAR REFINISH  
ADDRESS : 210 CROSBY ST.  
PICAYUNE, MS 39466

MEDICAL EMERGENCY : 888-345-5732      DATE PRINTED : 01/25/00  
TRANSPORTATION EMERGENCY: 888-748-5558      NAME OF PREPARER : Tim Herrington  
PRODUCT INFORMATION : 800-845-2500

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
Acrylic resin D ACGIH TLV: None OSHA PEL: None	Proprietary		
Methyl n-amyl ketone (MNAK) ACGIH TLV: 50 ppm OSHA PEL: Not established	110-43-0	2.14	68
Acrylic resin E ACGIH TLV: None OSHA PEL: None	Proprietary		
PCBT (PARACHLORO BENZOTRIFLUORIDE) OSHA PEL: NOT ESTB, ACGIH TLV: NOT ESTB, OTHER: 25 ppm 8hr	98-55-6	5.3	68
2-butoxyethyl acetate/EE acetate OSHA PEL: not estb, ACGIH TLV: not estb, OTHER: 25 ppm TW	00112-07-2	.29	68
* Xylene (Xyloil) ACGIH TLV: 100 ppm OSHA PEL: 100 ppm	1230-20-7	25	77 0.7
* Ethylbenzene ACGIH TLV/TWA: 100 ppm, 125 ppm STEL OSHA PEL/TWA: 100 ppm, 125 ppm STEL	100-41-4	8.5	69 0.2

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. \* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 277 deg F - 367 deg F      SPECIFIC GRAVITY (H2O=1): 1.07  
VAPOR DENSITY: Heavier than air      EVAPORATION RATE: Slower than ether  
COATING V.O.C.: 2.76 lb/gal      MATERIAL V.O.C.: 2.51 lb/gal  
SOLUBILITY IN WATER: Negligible  
APPEARANCE AND ODOR: Clear liquid with organic solvent odor.

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 60      METHOD USED: TCC  
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .88      UPPER: 10.5

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, or water fog.

### SPECIAL FIREFIGHTING PROCEDURES

Firefighters should wear self-contained breathing apparatus. Although water may be ineffective, a water fog may be used to cool closed containers that are

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2.1 VOC PREMIUM CLEARCOAT

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exposed to heat.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: Stable  
CONDITIONS TO AVOID  
None known

## INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing agents

## HAZARDOUS DECOMPOSITION OR BYPRODUCTS

BY FIRE: Normal products of incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

## ===== SECTION VI - HEALTH HAZARD DATA =====

### INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Dizziness, headache, nausea, shortness of breath, solvent taste in the mouth, narcosis, euphoria, or unconsciousness.

### SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Burning sensation with reddening of the eyes, irritation, rash, or burning sensation on the skin in unprotected areas.

### SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin, or dermatitis.

### INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Gastrointestinal distress with symptoms of systemic poisoning.

### HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE: Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident.

CHRONIC: Narcosis, kidney and liver disfunction with possible central nervous system effects.

CARCINOGENICITY: NTP CARCINOGEN: Yes IARC MONOGRAPHS: No OSHA REGULATED: No  
CALIFORNIA PROPOSITION 65 STATEMENT: Check Section II of this MSDS for hazardous ingredients whose name contains the characters [65]. These ingredients are listed or have trace components that are listed on California Proposition 65 lists.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Respiratory difficulty or pre-existing skin sensitization.

### EMERGENCY AND FIRST AID PROCEDURES

FOR EYES: Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. FOR SKIN: Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse. IF AFFECTED BY INHALATION OF VAPORS: Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. IF

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2.1 VOC PREMIUM CLEARCOAT

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SWALLOWED: Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbant and dispose in accordance with local regulations for ignitable hazardous waste.

### WASTE DISPOSAL METHOD

Dispose in accordance with local regulations for ignitable hazardous waste.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool dry place. Outside or detached storage is preferable. Inside storage should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

### OTHER PRECAUTIONS

If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

## ===== SECTION VIII - CONTROL MEASURES =====

### RESPIRATORY PROTECTION

Combination vapor-particulate respirator for use in solvent-containing environments is recommended, if ventilation is inadequate. If over-exposure is possible, use Air Supplied Respirator.

### VENTILATION

Local ventilation should be sufficient to reduce airborne vapor concentrations to below LEL and TLV to be considered adequate.

### PROTECTIVE GLOVES

Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

### EYE PROTECTION

Chemical splash goggles are highly recommended, particularly when potential for splashing into the eyes is high.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Solvent resistant clothing is recommended as needed to avoid skin contact.

### WORK/HYGIENIC PRACTICES

Wash hands thoroughly after handling product and before smoking or eating.

## ===== SECTION IX - DISCLAIMER =====

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as any express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.

# M A T E R I A L   S A F E T Y   D A T A   S H E E T

BASECOAT STABILIZER FAST

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PRODUCT NAME: BASECOAT STABILIZER FAST  
PRODUCT CODE: 0000000000000000161

HMS CODES: H F R P  
2 2 0 6

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: VALSPAR REFINISH  
ADDRESS : 210 CROSBY ST.  
PICAYUNE, MS 39466

MEDICAL EMERGENCY : 888-845-5732      DATE PRINTED : 01/25/00  
TRANSPORTATION EMERGENCY: 888-748-5558      NAME OF PREPARER : Tim Herrington  
PRODUCT INFORMATION : 800-845-2500

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
* Xylene (Xylol) ACGIH TLV: 100 ppm OSHA PEL: 100 ppm	1030-20-7 ✓	25	77	20.8
N-butyl acetate (normal butyl acetate) ACGIH TLV/TWA: 150 ppm, 200 ppm STEL OSHA PEL/TWA: 150 ppm, 200 ppm STEL	123-86-4	9.4	68	
VM&P naphtha ACGIH TLV/TWA: 300 ppm OSHA PEL/TWA: 300 ppm	64742-89-9	15	100 F	
2-PROPANOL (ISOPROPYL ALCOHOL) OSHA PEL: 400 ppm, ACGIH TLV: 400 ppm	67-53-0 ✓	33	68	
ETHYL ACETATE (ETHYL ETHANOATE) OSHA PEL: 400 ppm, ACGIH TLV: 400 ppm	141-76-2	75	60	
* Ethylbenzene ACGIH TLV/TWA: 100 ppm, 125 ppm STEL OSHA PEL/TWA: 100 ppm, 125 ppm STEL	100-41-4 ✓	9.5	68	4.3
* Toluene (Toluid) 1551 ACGIH TLV: 50 ppm skin OSHA PEL: 100 ppm; 150 ppm STEL	105-68-3 ✓	22	68	0.3

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. \* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 171 deg F - 284 deg F      SPECIFIC GRAVITY (H2O=1): 0.84  
VAPOR DENSITY: Heavier than air      EVAPORATION RATE: Slower than ether  
COATING V.O.C.: 6.82 lb/gal      MATERIAL V.O.C.: 6.82 lb/gal  
SOLUBILITY IN WATER: Negligible  
APPEARANCE AND ODOR: Clear liquid with organic solvent odor.

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 33 deg F      METHOD USED: T.C.C.  
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .9      UPPER: 12

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, or water fog.

### SPECIAL FIREFIGHTING PROCEDURES

Firefighters should wear self-contained breathing apparatus. Although water may be ineffective, a water fog may be used to cool closed containers that are

M A T E R I A L   S A F E T Y   D A T A   S H E E T  
BASECOAT STABILIZER FAST

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exposed to heat.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and flash back.

===== SECTION V - REACTIVITY DATA =====

**STABILITY:** Stable  
**CONDITIONS TO AVOID**  
None known

**INCOMPATIBILITY (MATERIALS TO AVOID)**  
Strong oxidizing agents

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**  
**BY FIRE:** Normal products of incomplete combustion.

**HAZARDOUS POLYMERIZATION:** Will not occur.

===== SECTION VI - HEALTH HAZARD DATA =====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Dizziness, drowsiness, nausea, shortness of breath, solvent taste in the mouth, narcosis, stupor, or unconsciousness.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Burning sensation with reddening of the eyes, irritation, rash, or burning sensation on the skin in unprotected areas.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin, or dermatitis.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Gastrointestinal distress with symptoms of systemic poisoning.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

**ACUTE:** Shortness of breath, burning sensation of respiratory passages, nausea, headache and increased proneness to accident.

**CHRONIC:** Narcosis, kidney and liver disfunction with possible central nervous system effects.

**CARCINOGENICITY:** NTP CARCINOGEN: Yes IARC MONOGRAPHS: No OSHA REGULATED: No  
**CALIFORNIA PROPOSITION 65 STATEMENT:** Check Section II of this MSDS for hazardous ingredients whose name contains the characters [65]. These ingredients are listed or have trace components that are listed on California Proposition 65 lists.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Respiratory difficulty or pre-existing skin sensitization.

**EMERGENCY AND FIRST AID PROCEDURES**

**FOR EYES:** Flush with plenty of clean flowing water for at least 15 minutes and get medical attention. **FOR SKIN:** Wash affected areas with plenty of warm soapy water. Launder contaminated clothing and shoes before reuse. **IF AFFECTED BY INHALATION OR VAPORS:** Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing has stopped. IF

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BASECOAT STABILIZER FAST

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SWALLOWED: Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Provide adequate ventilation. Remove all possible ignition sources. Absorb with inert absorbent and dispose in accordance with local regulations for ignitable hazardous waste.

### WASTE DISPOSAL METHOD

Dispose in accordance with local regulations for ignitable hazardous waste.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool dry place. Outside or detached storage is preferable. Inside storage should be in a standard flammable liquid storage room or cabinet. Ground containers when transferring liquid from one metal container to another. Do not reuse empty product container for any purpose.

### OTHER PRECAUTIONS

If a second component is added to this product, or if any additives or thinners are introduced into this product, read all product labels and all Material Safety Data Sheets prior to use.

## ===== SECTION VIII - CONTROL MEASURES =====

### RESPIRATORY PROTECTION

Combination vapor-particulate respirator for use in solvent-containing environments is recommended, if ventilation is inadequate. If over-exposure is possible, use Air Supplier Respirator.

### VENTILATION

Local ventilation should be sufficient to reduce airborne vapor concentrations to below LEL and TLV to be considered adequate.

### PROTECTIVE GLOVES

Recommended where skin contact is likely. Use solvent resistant gloves such as nitrile rubber.

### EYE PROTECTION

Chemical splash goggles are highly recommended, particularly when potential for splashing into the eyes is high.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Solvent resistant clothing is recommended as needed to avoid skin contact.

### WORK/HYGIENIC PRACTICES

Wash hands thoroughly after handling product and before smoking or eating.

## ===== SECTION IX - DISCLAIMER =====

The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as any express warranty. This product is intended for industry use only and should only be used by professionals who have carefully evaluated this product.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: AQUAPRIMER SURFACER WHITE  
PRODUCT CODE: 882

HMIS CODES: H F R P  
2\*1 0

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER  
ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE(CHEMTREC) : (800)424-9300  
INFORMATION PHONE : (800)752-1566

DATE PRINTED : 07/09/98  
NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	WEIGHT @TEMP (F) PERCENT
TITANIUM DIOXIDE (as total nuisance dust) OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m3	13463-67-7	NA	NA 14
CALCIUM SILICATE OSHA PEL: NE, ACGIH TLV: NE	13983-17-0	NA	NA 4
* DIETHYLENE GLYCOL MONOMETHYL ETHER OSHA PEL: N/E, ACGIH TLV: N/E	111-77-3	.1	68 4
* 2-BUTOXYETHANOL, ETHYLENE GLYCOL BUTYL ETHER OSHA PEL: 50 ppm, ACGIH TLV: 25 ppm, OTHER: N/E	111-76-2	.78	68 3
BARIUM PHOSPHATE OSHA PEL: NE, ACGIH TLV: NE	10048-98-3	NA	NA 1
* BUTYL BENZYL PHTHALATE OSHA PEL: 5 mg/m3, ACGIH TLV: 5 mg/m3	85-68-7	.16	302 1

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE(Deg F): 195 - 450	SPECIFIC GRAVITY (H2O=1): 1.35
VAPOR DENSITY: HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 1.93 lb/gl	MATERIAL V.O.C.: 0.75 lb/gl
COATING V.O.C.: 231 g/l	MATERIAL V.O.C.: 90 g/l
SOLUBILITY IN WATER: Soluble	
APPEARANCE AND ODOR: White liquid with mild odor	

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT(Deg F): >200 METHOD USED: TCC  
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .26 UPPER: 10.6

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

## SPECIAL FIREFIGHTING PROCEDURES

Use approved self-contained breathing apparatus.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Material will not sustain combustion unless water has evaporated. Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

1201 11

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Inhalation: Concentrated vapors maybe harmful. May cause headache, dizziness and nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin and eye contact: May cause irritation to both.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion: Maybe harmful if swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute: May cause eye, nose, respiratory tract and skin irritation, headache, dizziness and nausea. Chronic: Prolonged and repeated exposure may cause injury to bone marrow, blood cells, kidney, liver and testes.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.  
SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.

**WASTE DISPOSAL METHOD**

Place in tightly closed containers. Incinerate or dispose of in accordance with local, state and federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store away from high temperatures, sparks and open flame. Keep containers tightly closed.

**OTHER PRECAUTIONS**

Do not take internally. Avoid prolonged contact with skin.

**===== SECTION VIII - CONTROL MEASURES =====****RESPIRATORY PROTECTION**

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

**VENTILATION**

Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

**PROTECTIVE GLOVES**

Chemical resistant gloves

**EYE PROTECTION**

Chemical goggles, safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Eye bath and safety shower

**WORK/HYGIENIC PRACTICES**

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

**===== SECTION IX - REGULATORY INFORMATION =====****CALIFORNIA PROPOSITION 65**

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Contains: Ethylene Glycol Monomethyl Ether (trace) and Ethylene Glycol Monoethyl Ether (trace).

This product contains a chemical known to the State of California to cause cancer.

Contains: Crystalline Silica (trace).

**===== SECTION X - DISCLAIMER =====**

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: AQUAPRIMER SURFACER W/B GRAY  
PRODUCT CODE: 883

HMIS CODES: H F R F  
2\*1 0

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER  
ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC) : (800) 424-9300

DATE PRINTED : 03/31/98

INFORMATION PHONE : (800) 752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG @TEMP (F)	WEIGHT PERCENT
TITANIUM DIOXIDE (as total nuisance dust) OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m3	13463-67-7	NA NA	8
* DIETHYLENE GLYCOL MONOMETHYL ETHER OSHA PEL: N/E, ACGIH TLV: N/E	111-77-3	.1 68	4
* 2-BUTOXYETHANOL, ETHYLENE GLYCOL BUTYL ETHER OSHA PEL: 50 ppm, ACGIH TLV: 25 ppm, OTHER: N/E	111-76-2	.78 68	3
* BUTYL BENZYL PHTHALATE OSHA PEL: 5 mg/m3, ACGIH TLV: 5 mg/m3	85-68-7	.16 302	1

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 195 - 450

SPECIFIC GRAVITY (H2O=1): 1.29

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

COATING V.O.C.: 2.02 lb/gl

MATERIAL V.O.C.: 0.76 lb/gl

COATING V.O.C.: 243 g/l

MATERIAL V.O.C.: 91 g/l

SOLUBILITY IN WATER: Soluble

APPEARANCE AND ODOR: Gray liquid with mild odor

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): >200

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .26

UPPER: 10.6

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

**SPECIAL FIREFIGHTING PROCEDURES**

Use approved self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Material will not sustain combustion unless water has evaporated. Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

pel 2

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Inhalation: Concentrated vapors maybe harmful. May cause headache, dizziness and nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin and eye contact: May cause irritation to both.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion: Maybe harmful if swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute: May cause eye, nose, respiratory tract and skin irritation, headache, dizziness and nausea. Chronic: Prolonged and repeated exposure may cause injury to bone marrow, blood cells, kidney, liver and testes.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.

SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.

**WASTE DISPOSAL METHOD**

Place in tightly closed containers. Incinerate or dispose of in accordance with local, state and federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store away from high temperatures, sparks and open flame. Keep containers tightly closed.

**OTHER PRECAUTIONS**

Do not take internally. Avoid prolonged contact with skin.

**===== SECTION VIII - CONTROL MEASURES =====****RESPIRATORY PROTECTION**

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

**VENTILATION**

Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

**PROTECTIVE GLOVES**

Chemical resistant gloves

**EYE PROTECTION**

Chemical goggles, safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Eye bath and safety shower

**WORK/HYGIENIC PRACTICES**

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

**===== SECTION IX - REGULATORY INFORMATION =====****CALIFORNIA PROPOSITION 65**

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Contains: Ethylene Glycol Monomethyl Ether (trace) and Ethylene Glycol Monoethyl Ether (trace).

This product contains a chemical known to the State of California to cause cancer.

Contains: Crystalline Silica (trace).

**===== SECTION X - DISCLAIMER =====**

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: SPEEDPRIME GRAY PRIMER SURFACER--PT. A  
PRODUCT CODE: 911A

HMIS CODES: H F R F  
2\*3 2

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER  
ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC) : (800) 424-9300

DATE PRINTED : 04/02/98

INFORMATION PHONE : (800) 752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT PERCENT
		mmHG	@TEMP (F)	
ACETONE	67-64-1	185.5	68	29
OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm				
* PARACHLOROBENZOTRIFLUORIDE	98-56-6	5.3	68	17
OSHA PEL: NE, ACGIH TLV: NE				
TITANIUM DIOXIDE (as total nuisance dust)	13463-67-7	NA	NA	4
OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m3				
* ISOPROPYL ALCOHOL, 2-PROPANOL	67-63-0	32	68	3
OSHA PEL: 400 ppm, ACGIH TLV: 400 ppm				
* XYLENE	1330-20-7	6.1	68	1
OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm				
* METHYL PROPYL KETONE	107-87-9	28	68	1
OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm				
DIBASIC ESTER (CAS #1119-40-0, 627-93-0, 106-65-0)	MIXTURE	.2	68	1
OSHA PEL: N/E, ACGIH TLV: N/E				
SOLVENT NAPHTHA, HEAVY AROMATIC	64742-94-5	7.5	68	1
OSHA TWA: NE, ACGIH STEL: NE, SUPPLIER RECOMMENDED TWA: 100 PPM				
* DI (2-ETHYLHEXYL) PHTHALATE	117-81-7	0	68	1.18
OSHA PEL: 5 MG/M3, ACGIH TLV: 5 MG/M3				
METHYL AMYL KETONE, 2-HEPTANONE	110-43-0	2.14	68	1
ACGIH TLV: 50 ppm				

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 133 - 723	SPECIFIC GRAVITY (H2O=1): 1.18
VAPOR DENSITY: HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 2.34 lb/gl	MATERIAL V.O.C.: 0.98 lb/gl
COATING V.O.C.: 281 g/l	MATERIAL V.O.C.: 117 g/l
SOLUBILITY IN WATER: Negligible	
APPEARANCE AND ODOR: Gray liquid with mild odor	

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 1                      METHOD USED: TOC  
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .3                      UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

**SPECIAL FIREFIGHTING PROCEDURES**

Use approved self-contained breathing apparatus. Do not use direct stream of water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

**===== SECTION V - REACTIVITY DATA =====**

**STABILITY: STABLE**

**CONDITIONS TO AVOID**

Excessive heat, sparks or open flames

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong oxidizing agents, alkaline materials.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Thermal decomposition may yield carbon dioxide and/or carbon monoxide, nitrogen oxides, methane and carboxylic acids.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR**

**===== SECTION VI - HEALTH HAZARD DATA =====****INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Inhalation: May cause irritation to nose, throat and respiratory tract. High vapor concentrations may cause CNS depression.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin and eye contact: May cause irritation to both.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption: May cause irritation.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion: May cause vomiting which can result in aspiration of liquid into lungs. Do not induce vomiting.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

Acute: May cause eye, skin, nose and respiratory tract irritation. Early to moderate CNS depression may be evidenced by giddiness, headache, nausea and dizziness. Aspiration of liquid into the lungs can result in aspiration pneumonitis which may be evidenced by coughing and labored breathing. Chronic: Prolonged and repeated contact with skin may cause defatting and drying of the skin which may result in dermatitis.

**CARCINOGENICITY: NTP CARCINOGEN: Yes IARC MONOGRAPHS: Yes OSHA REGULATED: No**

This material contains Di(2-ethylhexyl) phthalate, which is classified as a possible carcinogen for humans (2B) by IARC and NTP.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Pre-existing eye, skin and respiratory disorders may be aggravated.

**EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION. **SPLASH (EYES):** FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. **SPLASH (SKIN):** WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. **INGESTION:** DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION IMMEDIATELY.

===== **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE** =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE PICKED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS. ADD WATER TO CONTAINERS. DO NOT ALLOW MATERIALS TO BECOME DRY.

**WASTE DISPOSAL METHOD**

Place in tightly closed containers and dispose of in accordance with local, state and federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store away from heat, sparks and open flames. Keep containers tightly closed when not in use. Use with adequate ventilation. Electrically bond and ground the drum while emptying. Do not allow contents to become dry.

**OTHER PRECAUTIONS**

Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

===== **SECTION VIII - CONTROL MEASURES** =====

**RESPIRATORY PROTECTION**

Use a NIOSH-approved respirator if exposure exceeds TLV limits.

**VENTILATION**

Use explosion-proof ventilation as required to control vapor concentrations.

**PROTECTIVE GLOVES**

Chemical resistant gloves

**EYE PROTECTION**

Chemical goggles, safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Eye bath and safety shower

**WORK/HYGIENIC PRACTICES**

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

===== **SECTION IX - DISCLAIMER** =====

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: SPEEDPRIME PRIMER SURFACER--PART B  
PRODUCT CODE: 911B

HMIS CODES: H F R P  
2\*3 2

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER  
ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE(CHEMTREC) : (800)424-9300

DATE PRINTED : 04/02/98

INFORMATION PHONE : (800)752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	@TEMP (F)	WEIGHT PERCENT
ACETONE	67-64-1	185.5	68	90
OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm				
* DI(2-ETHYLHEXYL) PHTHALATE	117-81-7	0	68	1.39
OSHA PEL: 5 MG/M3, ACGIH TLV: 5 MG/M3				

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE(Deg F): 133 - 723	SPECIFIC GRAVITY (H2O=1): 0.81
VAPOR DENSITY: HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 0.53 lb/gl	MATERIAL V.O.C.: 0.04 lb/gl
COATING V.O.C.: 63 g/l	MATERIAL V.O.C.: 5 g/l
SOLUBILITY IN WATER: Negligible	
APPEARANCE AND ODOR: Clear liquid with mild odor	

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT(Deg F): 1                      METHOD USED: TOC  
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .3                      UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

SPECIAL FIREFIGHTING PROCEDURES

Use approved self-contained breathing apparatus. Do not use direct stream of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

Excessive heat, sparks or open flames

Dr. 4 (1)

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong oxidizing agents

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR****===== SECTION VI - HEALTH HAZARD DATA =====****INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Inhalation: May cause respiratory tract irritation.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin and eye contact: May cause irritation to both.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption: May cause irritation.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

Acute: May cause eye, nose and respiratory tract irritation, headache, drowsiness and nausea. Ingestion may cause vomiting and subsequent aspiration of liquid into the lungs may lead to chemical pneumonia and pulmonary edema. Chronic: Long term exposure may lead to central nervous system depression.

**CARCINOGENICITY:** NTP CARCINOGEN: Yes IARC MONOGRAPHS: Yes OSHA REGULATED: No

This material contains Di(2-ethylhexyl) phthalate, which is classified as a possible carcinogen for humans (2B) by IARC and NTP.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Pre-existing eye, skin and respiratory disorders may be aggravated.

**EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION. **SPLASH (EYES):** FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. **SPLASH (SKIN):** WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. **INGESTION:** DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION IMMEDIATELY.

**===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.

**WASTE DISPOSAL METHOD**

Place in tightly closed containers and dispose of in accordance with local, state and federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store away from high temperatures and open flames. Keep containers tightly closed. Use with adequate ventilation.

**OTHER PRECAUTIONS**

Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

**===== SECTION VIII - CONTROL MEASURES =====****RESPIRATORY PROTECTION**

Follow OSHA regulation 29CFR 1910.134 for respirator use. Use air-purifying respirator that respirator supplier has demonstrated to be effective for solvent vapors when concentrations exceed the TLV up to the maximum level at which the respirator is effective. If the concentration of solvents is not known, use positive pressure air-supplied respirator.

**VENTILATION**

Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

**PROTECTIVE GLOVES**

Chemical resistant gloves

**EYE PROTECTION**

Chemical goggles, safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Eye bath and safety shower

**WORK/HYGIENIC PRACTICES**

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

**===== SECTION IX - DISCLAIMER =====**

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: PCL POLYPRIMER GRAY  
PRODUCT CODE: 901

HMIS CODES: H F R P  
2\*3 1

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER

ADDRESS : 3150 E. PICO BLVD.  
LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC) : (800) 424-9300

DATE PRINTED : 03/31/98

INFORMATION PHONE : (800) 752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	WEIGHT @TEMP (F) PERCENT
* STYRENE ? OSHA PEL: 100 PPM, ACGIH TLV: 50 PPM	100-42-5	4.5	68 15.77
TITANIUM DIOXIDE (as total nuisance dust) OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m3	13463-67-7	NA	NA 10
CALCIUM CARBONATE (as total nuisance dust) ACGIH TLV: 10 mg/m3	1317-65-3	NA	NA 8
ACETONE OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm	67-64-1	185.5	68 4
* SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC OSHA PEL: 400 ppm, ACGIH TLV: 400 ppm	64742-89-8	41.4	68 2
* METHYL ISOBUTYL KETONE OSHA PEL: 100 ppm, ACGIH TLV: 50 ppm	108-10-1	14.5	68 2
* METHYL ETHYL KETONE OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm	78-93-3	70.9	68 2
n-BUTYL ACETATE ACGIH TLV: 150 ppm	123-86-4	8.4	68 2
* CO 2-ETHYLHEXANOATE OSHA PEL: 0.1 MG/M3, ACGIH TLV: 0.05 MG/M3	136-52-7	NA	NA 0.16

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 133 - 295	SPECIFIC GRAVITY (H2O=1): 1.35
VAPOR DENSITY: HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 1.18 lb/gl	MATERIAL V.O.C.: 1.10 lb/gl
COATING V.O.C.: 141 g/l	MATERIAL V.O.C.: 131 g/l
SOLUBILITY IN WATER: Negligible	
APPEARANCE AND ODOR: Gray liquid with mild odor	

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 1                      METHOD USED: TOC  
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: 1                      UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

**SPECIAL FIREFIGHTING PROCEDURES**

Use approved self-contained breathing apparatus. Do not use direct stream of water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

**===== SECTION V - REACTIVITY DATA =====**

**STABILITY: STABLE**

**CONDITIONS TO AVOID**

Excessive heat, sparks or open flames

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong oxidizing agents

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR**

**===== SECTION VI - HEALTH HAZARD DATA =====****INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Inhalation: May cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Eye contact: May cause severe irritation, redness, tearing and blurred vision. Skin contact: May cause moderate irritation.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption: May cause irritation, defatting and dermatitis.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

Acute: May cause eye, nose, respiratory tract and skin irritation, headache, drowsiness and nausea. Ingestion may result in vomiting; aspiration (breathing in) into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression, dermatitis and liver and kidney damage.

**CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: Yes OSHA REGULATED: No**

This material contains a cobalt compound and styrene; both are classified as possible carcinogens for humans (2B) by IARC.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Pre-existing eye, skin and respiratory disorders may be aggravated.

**EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION: MOVE PERSON TO FRESH AIR. PROVIDE ARTIFICIAL RESPIRATION OR OXYGEN IF BREATHING IS DIFFICULT. EYE & SKIN CONTACT: FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. WASH AFFECTED AREAS WITH SOAP AND WATER IMMEDIATELY. REMOVE CONTAMINATED CLOTHING. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.**

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.

WASTE DISPOSAL METHOD

Place in tightly closed containers and dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store away from high temperatures and open flames. Keep containers tightly closed. Use with adequate ventilation.

OTHER PRECAUTIONS

Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

VENTILATION

Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

PROTECTIVE GLOVES

Chemical resistant gloves

EYE PROTECTION

Chemical goggles, safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Eye bath and safety shower

WORK/HYGIENIC PRACTICES

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

===== SECTION IX - REGULATORY INFORMATION =====

CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Contains: Toluene (trace)

This product contains a chemical known to the State of California to cause cancer.

Contains: Benzene (trace) and Crystalline Silica (trace).

12/15/10

## ===== SECTION X - DISCLAIMER =====

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: EUROSEAL NON SANDING PRIMER SEALER GRAY  
PRODUCT CODE: 701

HMIS CODES: H F R P  
2\*3 0

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER  
ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE(CHEMTREC) : (800)-424-9300

DATE PRINTED : 07/09/99

INFORMATION PHONE : (800)752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	@TEMP (F)	WEIGHT PERCENT
TITANIUM DIOXIDE (as total nuisance dust)	13463-67-7	NA	NA	19
OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m3				
* PARACHLOROBENZOTRIFLUORIDE	98-56-6	5.3	68	12
OSHA PEL: NE, ACGIH TLV: NE				
n-BUTYL ACETATE	123-86-4	8.4	68	12
ACGIH TLV: 150 ppm				
ACETONE	67-64-1	185.5	68	7
OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm				
METHYL AMYL KETONE , 2-HEPTANONE	110-43-0	2.14	68	1
ACGIH TLV: 50 ppm				
* TOLUENE	108-88-3	21.8	68	0.44
OSHA PEL: 200 ppm, ACGIH TLV: 100 ppm				

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 133 - 304	SPECIFIC GRAVITY (H2O=1): 1.42
VAPOR DENSITY: HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 2.25 lb/gl	MATERIAL V.O.C.: 1.68 lb/gl
COATING V.O.C.: 269 g/l	MATERIAL V.O.C.: 201 g/l
SOLUBILITY IN WATER: Negligible	
APPEARANCE AND ODOR: Gray liquid with mild odor	

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 1                      METHOD USED: TOC  
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9                      UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

**SPECIAL FIREFIGHTING PROCEDURES**

Use self-contained breathing apparatus. Water may be used to cool closed container to prevent pressure build-up.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame or high intensity source of heat.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

Excessive heat and open flames

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Inhalation: May cause irritation of the respiratory system, dizziness, nausea, headache, loss of coordination and unconsciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Eye contact: May cause irritation. Skin contact: May cause defatting of the skin with resultant irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin absorption: May cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion: Maybe harmful if swallowed in large quantities. Symptoms can include sore throat, abdominal pain, nausea vomiting and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Chronic: Prolonged and repeated contact to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Acute: Long term exposure may lead to irritation in the eyes, skin, and respiratory system.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION IMMEDIATELY.

=====  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
=====

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. SOAK UP WITH DIATOMACEOUS SILICA AND PICK UP WITH A SHOVEL. FOR LARGE SPILLS, USE WATER SPRAY TO DILUTE SPILL TO A NONCOMBUSTIBLE MIXTURE. PREVENT RUNOFF FROM ENTERING DRAINS AND SEWER.

## WASTE DISPOSAL METHOD

Incinerate under safe conditions or dispose of in accordance with local, state and federal regulations.

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store away from excessive heat, sparks and open flames. Keep containers tightly closed.

## OTHER PRECAUTIONS

Do not take internally. Avoid prolonged contact or inhalation. Ground equipment to reduce electrical sparking hazard. Empty containers must be handled with care due to product residue and flammable solvent vapor.

=====  
SECTION VIII - CONTROL MEASURES  
=====

## RESPIRATORY PROTECTION

Use approved self-contained breathing apparatus where vapor concentration may be above TLV limits.

## VENTILATION

Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

## PROTECTIVE GLOVES

Chemical resistant gloves

## EYE PROTECTION

Safety goggles or glasses

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Eye bath and safety shower

## WORK/HYGIENIC PRACTICES

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

=====  
SECTION IX - REGULATORY INFORMATION  
=====

## CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Contains: Toluene

This product contains a chemical known to the State of California to cause cancer.

Contains: Benzene (trace)

## ===== SECTION X - DISCLAIMER =====

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: ENVIRO-FINISH URETHANE CATALYST  
PRODUCT CODE: 6340-98

HMIS CODES: H F R P  
2\*3 1

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER

ADDRESS : 3150 E. PICO BLVD.  
LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC) : (800) 424-9300

DATE PRINTED : 07/02/98

INFORMATION PHONE : (800) 752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT PERCENT
		mmHG	@TEMP (F)	
HOMOPOLYMER OF HDI	28182-81-2	0	68	45
OSHA PEL: N/E, ACGIH TLV: N/E, OTHER: 1 mg/m3				
* METHYL PROPYL KETONE	107-87-9	28	68	22
OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm				
OXO-HEXYL ACETATE	88230-35-7	1.4	68	9
OSHA PEL: N/E, ACGIH TLV: N/E				
* METHYL ISOBUTYL KETONE	108-10-1 /	14.5	68	9
OSHA PEL: 100 ppm, ACGIH TLV: 50 ppm				
* XYLENE	1330-20-7 /	6.1	68	8
OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm				
n-BUTYL ACETATE	123-86-4 /	8.4	68	8
ACGIH TLV: 150 ppm				

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 220 - 330

SPECIFIC GRAVITY (H2O=1): 0.95

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

COATING V.O.C.: 4.35 lb/gl

MATERIAL V.O.C.: 4.35 lb/gl

COATING V.O.C.: 521 g/l

MATERIAL V.O.C.: 521 g/l

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Pale yellow liquid with mild odor

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 46

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: 1

UPPER: 8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

**SPECIAL FIREFIGHTING PROCEDURES**

Use approved gas mask and full protective clothing. Water may be used to cool closed container to prevent pressure build-up and possible explosions due to extreme heat.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Keep away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat due to pressure build-up.

**===== SECTION V - REACTIVITY DATA =====**

**STABILITY: STABLE**

**CONDITIONS TO AVOID**

Excessive heat, sparks or open flames

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong oxidizing agents, isocyanates and acids.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Thermal decomposition may yield CO and/or CO<sub>2</sub>, oxides of nitrogen amines & other aliphatic fragments.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR**

**===== SECTION VI - HEALTH HAZARD DATA =====****INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Inhalation: May cause irritation to nose, throat and respiratory tract. High vapor concentrations may cause CNS depression. May cause irritation of the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction).

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin and eye contact: May result in dry, defatted and cracked skin causing increased susceptibility to infection or dermatitis. Irritated eyes may cause tearing, reddening and swelling. Prolonged exposure may cause conjunctivitis.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption may cause systemic effects similar to those identified under inhalation effects.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion may result in irritation and possible corrosive action in the mouth, stomach and digestive tract. Vomiting may cause aspiration resulting in chemical pneumonitis.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

Acute: May cause eye, nose and skin irritation, headache, dizziness and nausea. Ingestion may result in vomiting; aspiration of liquid into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression and dermatitis.

**CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No**

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Asthma and any other respiratory disorders (bronchitis, emphysema, hyperreactivity), skin allergies and eczema.

**EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.**  
**SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.**

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. SOAK UP WITH DIATOMACEOUS SILICA AND PICK UP WITH A SHOVEL. FOR LARGE SPILLS, USE WATER SPRAY TO DILUTE SPILL TO A NONCOMBUSTIBLE MIXTURE. PREVENT RUNOFF FROM ENTERING DRAINS AND SEWER.

## WASTE DISPOSAL METHOD

Incinerate under safe conditions or dispose of in accordance with local, state and federal regulations.

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store away from excessive heat, sparks, and open flame. Keep containers tightly closed. This product contains a chemical substance that is reportable under the Significant New Use Rule (SNUR), reference EPA's CFR721.2980 and CFR 721.9--Release to water.

## OTHER PRECAUTIONS

Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

## ===== SECTION VIII - CONTROL MEASURES =====

## RESPIRATORY PROTECTION

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH approved respirator.

## VENTILATION

Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH's TLV limits.

## PROTECTIVE GLOVES

Chemical resistant gloves

## EYE PROTECTION

Chemical goggles, safety glasses

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Eye bath and safety shower

## WORK/HYGIENIC PRACTICES

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

## ===== SECTION IX - DISCLAIMER =====

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: EUROCLEAR II 3.5 VOC CLEAR  
PRODUCT CODE: 2300A

HMIS CODES: H F R  
2\*3 0

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER

ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC) : (800)-424-9300

DATE PRINTED : 06/16/99

INFORMATION PHONE : (800)752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mmHG	@TEMP (F)	
ACETONE	67-64-1	185.5	68	20
OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm				
n-BUTYL ACETATE; BUTYL ETHANOATE	123-86-4	8	68	13
OSHA PEL: 150 ppm, ACGIH TLV: 150 ppm				
n-BUTYL ACETATE	123-86-4	8.4	68	12
ACGIH TLV: 150 ppm				
* XYLENE	1330-20-7	6.1	68	1
OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm				
* TOLUENE	108-88-3	21.8	68	1.45
OSHA PEL: 200 ppm, ACGIH TLV: 100 ppm				

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 133 - 285

SPECIFIC GRAVITY (H2O=1): 0.96

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

COATING V.O.C.: 3.00 lb/gl

MATERIAL V.O.C.: 2.29 lb/gl

COATING V.O.C.: 359 g/l

MATERIAL V.O.C.: 274 g/l

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Pale yellow liquid with mild odor

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 1

METHOD USED: TOC

FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: 1

UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

**SPECIAL FIREFIGHTING PROCEDURES**

Use approved self-contained breathing apparatus. Cool fire exposed containers with water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Keep away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat due to pressure build-up.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing agents, isocyanates and acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Thermal decomposition may yield CO and/or CO<sub>2</sub>, oxides of nitrogen amines & other aliphatic fragments.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Inhalation: Excessive inhalation of vapors may cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin absorption may cause systemic effects similar to those identified under inhalation effects.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute: May cause eye, nose and skin irritation, headache, dizziness and nausea. Ingestion may result in vomiting; aspiration of liquid into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression and dermatitis.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.  
SPLASH(EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH(SKIN): WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSULT PHYSICIAN IMMEDIATELY.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ELIMINATE ALL SOURCES OF IGNITION. ABSORB WITH INERT MATERIAL (SAND, VERMICULITE, ETC.), SWEEP OR SCOOP UP AND PUT IN DISPOSAL CONTAINER. FLUSH AREA OF SPILL WITH WATER.

## WASTE DISPOSAL METHOD

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes.

## OTHER PRECAUTIONS

Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

## ===== SECTION VIII - CONTROL MEASURES =====

## RESPIRATORY PROTECTION

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits, use a combination vapor and particulate respirator for spray application or a vapor respirator for non-spray applications.

## VENTILATION

Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and polyisocyanate below their respective TLV's must be utilized.

## PROTECTIVE GLOVES

Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing

## EYE PROTECTION

Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Safety showers and eyewash stations should be provided.

## WORK/HYGIENIC PRACTICES

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

## ===== SECTION IX - REGULATORY INFORMATION =====

## CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Contains: Toluene

This product contains a chemical known to the State of California to cause cancer.

Contains: Benzene (trace)

## ===== SECTION X - DISCLAIMER =====

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: EUROCLEAR II 3.5 VOC CATALYST  
PRODUCT CODE: 2398B

HMIS CODES: H F R P  
2\*2 1

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER  
ADDRESS : 3150 E. PICO BLVD.  
LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC) : (800)-424-9300  
INFORMATION PHONE : (800)752-1566

DATE PRINTED : 06/16/99  
NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	TEMP (F)	WEIGHT PERCENT
n-BUTYL ACETATE; BUTYL ETHANOATE OSHA PEL: 150 ppm, ACGIH TLV: 150 ppm	123-86-4	8	68	41
HOMOPOLYMER OF HDI OSHA PEL: N/E, ACGIH TLV: N/E, OTHER: 1 mg/m3	28182-81-2	0	68	16
WHITE SPIRITS OSHA PEL: NE, ACGIH TLV: NE	64742-82-1	3	68	7
OXO-HEXYL ACETATE OSHA PEL: N/E, ACGIH TLV: N/E	88230-35-7	1.4	68	3
AROMATIC 100 OSHA PEL: N/E, ACGIH TLV: N/E	64742-95-6	1	68	3
* 1,2,4-TRIMETHYLBENZENE OSHA PEL: 400 ppm, ACGIH TLV: 50 ppm	95-63-6	1.7	68	1

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 252 - 330	SPECIFIC GRAVITY (H2O=1): 0.97
VAPOR DENSITY: HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 4.64 lb/gl	MATERIAL V.O.C.: 4.64 lb/gl
COATING V.O.C.: 556 g/l	MATERIAL V.O.C.: 556 g/l
SOLUBILITY IN WATER: Insoluble	
APPEARANCE AND ODOR: Pale yellow liquid with mild odor	

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 78  
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9  
METHOD USED: TOC  
UPPER: 8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

**SPECIAL FIREFIGHTING PROCEDURES**

Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During fire, HDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat or burst when contaminated with water. Solvent vapors may be heavier than air. Stagnant air may cause vapors to accumulate and travel along the ground to an ignition source which may result in a flash back to the source of the vapor.

**===== SECTION V - REACTIVITY DATA =====**

**STABILITY: STABLE**

**CONDITIONS TO AVOID**

Excessive heat, sparks or open flames

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Water, amines, strong bases, alcohols, metal compounds and surface active materials

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Carbon dioxide, carbon monoxide, oxides of nitrogen, traces of HCN and HDI

**HAZARDOUS POLYMERIZATION: MAY OCCUR**

May occur if in contact with moisture or other materials which react with isocyanates. May occur at temp. over 400 Deg F

**===== SECTION VI - HEALTH HAZARD DATA =====****INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

May cause irritation of the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction).

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption may cause systemic effects similar to those identified under inhalation effects.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion may result in irritation and possible corrosive action in the mouth, stomach and digestive tract.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

Acute: May cause irritation of the mucous membranes, eyes, skin and throat. Other symptoms are headache, nausea, fatigue and loss of appetite. Ingestion may cause vomiting which may result in aspiration of the solvent resulting in chemical pneumonitis. Chronic: May cause lung damage, skin sensitization and neurotoxic effects including permanent brain and nervous system damage.

**CARCINOGENICITY:** NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Asthma and any other respiratory disorders (bronchitis, emphysema, hyperreactivity), skin allergies and eczema.

INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY. SPLASH(EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 1 MINUTES. SPLASH(SKIN): WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSULT PHYSICIAN IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. COVER THE SPILL WITH SAWDUST, VERMICULITE OR OTHER ABSORBENT MATERIAL. COLLECT MATERIAL IN OPEN CONTAINERS. REMOVE CONTAINERS TO A SAFE PLACE AND ALLOW TO STAND FOR 24 TO 48 HOURS.

WASTE DISPOSAL METHOD

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes.

OTHER PRECAUTIONS

If container is exposed to high heat, it can be pressurized and possibly rupture explosively. HDI reacts slowly with water to form carbon dioxide (CO<sub>2</sub>) gas. This gas can cause sealed containers to expand and possibly rupture explosively.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits, use a combination vapor and particulate respirator for spray application or a vapor respirator for non-spray applications.

VENTILATION

Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and polyisocyanate below their respective TLV's must be utilized.

PROTECTIVE GLOVES

Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing.

EYE PROTECTION

Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Safety showers and eyewash stations should be provided.

WORK/HYGIENIC PRACTICES

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

## ===== SECTION IX - REGULATORY INFORMATION =====

## CALIFORNIA PROPOSITION 65

None.

## ===== SECTION X - DISCLAIMER =====

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: PREMIUM PRODUCTION EUROCLEAR  
PRODUCT CODE: 2400

HMIS CODES: H F R  
2\*3 1

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER

ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE(CHEMTREC) : (800) 424-9300

DATE PRINTED : 02/04/00

INFORMATION PHONE : (800) 752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	@TEMP (F)	WEIGHT PERCENT
* PARACHLOROBENZOTRIFLUORIDE OSHA PEL: NE, ACGIH TLV: NE	98-56-6	5.3	68	44
n-BUTYL ACETATE ACGIH TLV: 150 ppm	123-86-4	8.4	68	9
ACETONE OSHA PEL: 1000 ppm, ACGIH TLV: 750 ppm	67-64-1	185.5	68	8
* TOLUENE OSHA PEL: 200 ppm, ACGIH TLV: 100 ppm /	108-88-3	21.8	68	1.05

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 133 - 282

DENSITY: 9.39 lb/gl

VAPOR DENSITY: HEAVIER THAN AIR

SPECIFIC GRAVITY (H2O=1): 1.13

COATING V.O.C.: 1.84 lb/gl

MATERIAL V.O.C.: 0.95 lb/gl

COATING V.O.C.: 220 g/l

MATERIAL V.O.C.: 113 g/l

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: SLOWER THAN ETHER

APPEARANCE AND ODOR: Pale yellow liquid with mild odor

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 1

METHOD USED: TOC

FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9

UPPER: 12.8

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

**SPECIAL FIREFIGHTING PROCEDURES**

Use approved self-contained breathing apparatus. Cool fire exposed containers with water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Keep away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat due to pressure build-up.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

2400.

**CONDITIONS TO AVOID**

Page: 2

Excessive heat, sparks or open flames

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong oxidizing agents, isocyanates and acids.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Thermal decomposition may yield CO and/or CO<sub>2</sub>, oxides of nitrogen amines & other aliphatic fragments.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR**

===== SECTION VI - HEALTH HAZARD DATA =====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Inhalation: Excessive inhalation of vapors may cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption may cause systemic effects similar to those identified under inhalation effects

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

Acute: May cause eye, nose and skin irritation, headache, dizziness and nausea. Ingestion may result in vomiting; aspiration of liquid into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression and dermatitis.

**CARCINOGENICITY:** NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Pre-existing eye, skin and respiratory disorders may be aggravated.

**EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.  
**SPLASH(EYES):** FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. **SPLASH(SKIN):** WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. **INGESTION:** DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSULT PHYSICIAN IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

ELIMINATE ALL SOURCES OF IGNITION. ABSORB WITH INERT MATERIAL (SAND, VERMICULITE, ETC.), SWEEP OR SCOOP UP AND PUT IN DISPOSAL CONTAINER. FLUSH AREA OF SPILL WITH WATER.

**WASTE DISPOSAL METHOD**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep away from heat, sparks and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes.

**OTHER PRECAUTIONS**

Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

**===== SECTION VIII - CONTROL MEASURES =====****RESPIRATORY PROTECTION**

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits, use a combination vapor and particulate respirator for spray application or a vapor respirator for non-spray applications.

**VENTILATION**

Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and polyisocyanate below their respective TLV's must be utilized.

**PROTECTIVE GLOVES**

Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing.

**EYE PROTECTION**

Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Safety showers and eyewash stations should be provided.

**WORK/HYGIENIC PRACTICES**

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

**===== SECTION IX - REGULATORY INFORMATION =====****CALIFORNIA PROPOSITION 65**

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Contains: Toluene

This product contains a chemical known to the State of California to cause cancer.

Contains: Benzene (trace)

**===== SECTION X - DISCLAIMER =====**

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT NAME: PREMIUM PRODUCTION EUROCLEAR CATALYST  
PRODUCT CODE: 2498

HMIS CODES: H F R P  
3\*3 1

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: PACIFIC COAST LACQUER

ADDRESS : 3150 E. PICO BLVD.

LOS ANGELES, CA 90023-3683

EMERGENCY PHONE (CHEMTREC) : (800) 424-9300

DATE PRINTED : 02/04/00

INFORMATION PHONE : (800) 752-1566

NAME OF PREPARER : N/A

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	TEMP (F)	WEIGHT PERCENT
* PARACHLOROBENZOTRIFLUORIDE OSHA PEL: NE, ACGIH TLV: NE	98-56-6	5.3	68	38
HOMOPOLYMER OF HDI OSHA PEL: N/E, ACGIH TLV: N/E, OTHER: 1 mg/m3	28182-81-2	0	68	16
OXO-HEXYL ACETATE OSHA PEL: N/E, ACGIH TLV: N/E	88230-35-7	1.4	68	7
WHITE SPIRITS OSHA PEL: NE, ACGIH TLV: NE	64742-82-1	3	68	7
AROMATIC 100 OSHA PEL: N/E, ACGIH TLV: N/E	64742-95-6	1	68	3
* 1,2,4-TRIMETHYLBENZENE OSHA PEL: 400 ppm, ACGIH TLV: 50 ppm	95-63-6	1.7	68	1
n-BUTYL ACETATE ACGIH TLV: 150 ppm	123-86-4	8.4	68	1

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE (Deg F): 259 - 330	DENSITY: 9.42 lb/gl
VAPOR DENSITY: HEAVIER THAN AIR	SPECIFIC GRAVITY (H2O=1): 1.13
COATING V.O.C.: 2.81 lb/gl	MATERIAL V.O.C.: 1.90 lb/gl
COATING V.O.C.: 336 g/l	MATERIAL V.O.C.: 228 g/l
SOLUBILITY IN WATER: Insoluble	EVAPORATION RATE: SLOWER THAN ETHER
APPEARANCE AND ODOR: Pale yellow liquid with mild odor	

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT (Deg F): 78

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: .9

UPPER: 10.5

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

**SPECIAL FIREFIGHTING PROCEDURES**

Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During fire, HDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat or burst when contaminated with water. Solvent vapors may be heavier than air. Stagnant air may cause vapors to accumulate and travel along the ground to an ignition source which may result in a flash back to the source of the vapor.

**===== SECTION V - REACTIVITY DATA =====**

**STABILITY: STABLE**

**CONDITIONS TO AVOID**

Excessive heat, sparks or open flames

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Water, amines, strong bases, alcohols, metal compounds and surface active materials

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Carbon dioxide, carbon monoxide, oxides of nitrogen, traces of HCN and HDI

**HAZARDOUS POLYMERIZATION: MAY OCCUR**

May occur if in contact with moisture or other materials which react with isocyanates. May occur at temp. over 400 Deg F

**===== SECTION VI - HEALTH HAZARD DATA =====****INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

May cause irritation of the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction).

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin contact may cause irritation. Symptoms of skin irritation may be reddening, swelling, scaling or blistering. Eye contact may cause tearing, reddening and swelling of the eyes.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption may cause systemic effects similar to those identified under inhalation effects.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion may result in irritation and possible corrosive action in the mouth, stomach and digestive tract.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

Acute: May cause irritation of the mucous membranes, eyes, skin and throat. Other symptoms are headache, nausea, fatigue and loss of appetite. Ingestion may cause vomiting which may result in aspiration of the solvent resulting in chemical pneumonitis. Chronic: May cause lung damage, skin sensitization and neurotoxic effects including permanent brain and nervous system damage.

**CARCINOGENICITY:** NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Asthma and any other respiratory disorders (bronchitis, emphysema, hyperreactivity), skin allergies and eczema.

**EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.  
**SPLASH(EYES):** FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. **SPLASH(SKIN):** WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. FOR SEVERAL EXPOSURES GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. **INGESTION:** DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSULT PHYSICIAN IMMEDIATELY.

===== **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE** =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

REMOVE ALL SOURCES OF IGNITION AND PROVIDE VENTILATION. COVER THE SPILL WITH SAWDUST, VERMICULITE OR OTHER ABSORBENT MATERIAL. COLLECT MATERIAL IN OPEN CONTAINERS. REMOVE CONTAINERS TO A SAFE PLACE AND ALLOW TO STAND FOR 24 TO 48 HOURS.

**WASTE DISPOSAL METHOD**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep away from heat, sparks and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes.

**OTHER PRECAUTIONS**

If container is exposed to high heat, it can be pressurized and possibly rupture explosively. HDI reacts slowly with water to form carbon dioxide (CO<sub>2</sub>) gas. This gas can cause sealed containers to expand and possibly rupture explosively.

===== **SECTION VIII - CONTROL MEASURES** =====

**RESPIRATORY PROTECTION**

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits, use a combination vapor and particulate respirator for spray application or a vapor respirator for non-spray applications.

**VENTILATION**

Exhaust ventilation sufficient to keep the airborne concentration of the solvents, HDI and polyisocyanate below their respective TLV's must be utilized.

**PROTECTIVE GLOVES**

Chemical resistant gloves. Cover as much of the skin area as possible with appropriate clothing.

**EYE PROTECTION**

Safety glasses, splash goggles or face shield. Contact lenses should not be worn.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Safety showers and eyewash stations should be provided.

**WORK/HYGIENIC PRACTICES**

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

## ===== SECTION IX - REGULATORY INFORMATION =====

## CALIFORNIA PROPOSITION 65

None.

## ===== SECTION X - DISCLAIMER =====

The information contained herein is based on the data available to us and is believed to be correct. However, Pacific Coast Lacquer Co. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pacific Coast Lacquer Co. assumes no responsibility for injury from the use of the product described herein.



## DuPont Automotive Finishes



**FINISHMASTER.**  
Automotive & Industrial Paint

Store #1013

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2591 E. FOOTHILL, BOULEVARD  
Pasadena, CA 91107

**IMPORTANT INFORMATION Enclosed**  
**DuPont Material Safety Data Sheets**  
**For Compliance with**  
**OSHA Standard 29CFR§1910.1200**



## METAL TREATMENTS

## Section I - Manufacturer

## Manufacturer:

DuPont Co.  
Automotive  
Wilmington, Delaware 19898

## Telephone:

Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Metal treatments 224S, 225S, 226S, 227S, 230S, 244S, 5717S, 5718S,

OSHA Hazard Class: 224S, 227S, Flammable liquid.

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section X.

## Section II - Hazardous Ingredients

(See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C. mm Hg)	Exposure Limits *
Chromic acid	1333-82-0	Unknown	50 µg/m <sup>3</sup> -A Cr 0.1 mg/m <sup>3</sup> -O Cr
Ethylene glycol monobutyl ether	111-76-2	0.6	25 ppm-A Skin 50 ppm-O Skin 10 ppm-D Skin
Isopropyl alcohol	67-63-0	33.0	400 ppm-A,O 500 ppm-A 15 min(STEL) 400 ppm-D 8&12 hr TWA
Nickel phosphate	10381-36-9	None	0.1 mg/m <sup>3</sup> -A,O Ni
Octylphenoxypolyethoxyethanol surfactant	9036-19-5	1.0	None-A,O
Organofunctional ester	Not Available	Unknown	None-A,O
Phosphoric acid	7664-38-2	None	1 mg/m <sup>3</sup> -A,O 3 mg/m <sup>3</sup> -A,O 15 min(STEL) 1 mg/m <sup>3</sup> -D 8&12 hr
Potassium fluoride	7789-23-3	None	2.5 mg/m <sup>3</sup> -A Fluoride as F None-O
Water	7732-18-5	23.6	None-A,O
Zinc oxide	1314-13-2	None	5 mg/m <sup>3</sup> -O Resp 10 mg/m <sup>3</sup> -A,O Total dust

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

## Section III - Physical Data

Evaporation rate: Less than ether  
Vapor Density: Heavier than air  
Solubility in water: Miscible  
Percent volatile by volume: 49.6%- 99.6%  
Percent volatile by weight: 45%- 99%  
Boiling range: 26°C- 175°C/ 79°F- 347°F  
Gallon weight: 7.20- 9.64 lbs./gallon

## Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.  
Flammable limits: 0.9%- 25.0%

Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

## Section V - Health Hazard Data

## General Effects:

Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available.

Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**

Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: These products are not designed to be sprayed or atomized. (Except for 230S, follow dilution directions on label) Severe skin or eye irritation can result. Treat as a strong acid burn, flush with water for at least 15 minutes, and seek medical attention IMMEDIATELY. May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

## Specific Effects:

**Chromic Acid** Chromic acid overexposure causes severe irritation to eyes and may cause blindness. May cause deep, painful penetrating ulcers on skin. May cause severe irritation of the respiratory tract and nasal septum and possible perforation. Prolonged or repeated eye contact may cause conjunctivitis. solutions can be absorbed through the skin in harmful amounts leading to kidney failure and death. Death has been avoided in several cases through early renal dialysis. Implantation studies have produced lung cancers in laboratory animals. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Is an IARC, NTP or OSHA carcinogen. **WARNING:** This chemical is known to the State of California to cause cancer. **Ethylene Glycol Monobutylether** Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Isopropyl Alcohol** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Nickel Phosphate** Has shown mutagenic activity in laboratory cell culture tests. **WARNING:** This chemical is known to the State of California to cause cancer. **Octylphenoxypolyethoxyethanol Surfactant** Causes eye corrosion and permanent injury. Contact may cause skin irritation with discomfort or rash. **Organofunctional Ester** Can be absorbed through the skin in harmful amounts. Contact may cause skin irritation with discomfort or rash. Prolonged skin contact may cause chemical burns. Causes eye corrosion and permanent injury.

**Phosphoric Acid** Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. **Potassium Fluoride** May cause anemia. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Contact may cause skin irritation with discomfort or rash. Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. **Toluene** Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm. **Zinc Oxide** May cause abnormal liver function.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility** (materials to avoid): None reasonably foreseeable.

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine and remove with inert absorbent.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F. **Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE

### INGREDIENTS (See Section II)

**224S** phosphoric acid (7%), water, zinc oxide (2%),  
GAL WT: 8.81 WT PCT SOLIDS: 10.24 VOL PCT SOLIDS: 4.95  
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOCAP: 0.0 H: 2 F: 1  
R: 1 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**225S** ethylene glycol monobutylether (14%),  
octylphenoxypolyethoxyethanol surfactant, phosphoric acid (22%),  
potassium fluoride, water  
GAL WT: 9.32 WT PCT SOLIDS: 26.34 VOL PCT SOLIDS: 15.74  
SOLVENT DENSITY: 8.15 VOC LE: 3.9  
VOCAP: 1.3 H: 2 F: 1 R: 1 FLASH PT: ABOVE 200 F (CC) OSHA  
STORAGE: IIIB

**226S** chromic acid (1%), water,  
GAL WT: 8.37 WT PCT SOLIDS: 1.01 VOL PCT SOLIDS: 0.38  
SOLVENT DENSITY: 8.32 VOC LE: 0.0  
VOCAP: 0.0 H: 0 F: 1 R: 0 FLASH PT: ABOVE 200 F (CC) OSHA  
STORAGE: IIIB

**227S** phosphoric acid (8%), water, zinc oxide (2%),  
GAL WT: 8.79 WT PCT SOLIDS: 10.05 VOL PCT SOLIDS: 4.93  
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOCAP: 0.0 H: 3 F: 1  
R: 1 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**230S** isopropyl alcohol, organofunctional ester,  
GAL WT: 7.20 WT PCT SOLIDS: 55.00 VOL PCT SOLIDS: 50.39  
SOLVENT DENSITY: 6.53 VOC LE: 3.2 VOCAP: 3.2 H: 3 F: 3  
R: 2 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**244S** isopropyl alcohol, water,  
GAL WT: 7.31 WT PCT SOLIDS: 0.75 VOL PCT SOLIDS: 0.34  
SOLVENT DENSITY: 7.28 VOC LE: 6.5  
VOCAP: 3.8 H: 1 F: 3 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC)  
OSHA STORAGE: IB

**5717S** ethylene glycol monobutylether (15%), phosphoric acid  
(31%), water,  
GAL WT: 9.64 WT PCT SOLIDS: 32.09 VOL PCT SOLIDS: 19.25  
SOLVENT DENSITY: 8.11 VOC LE: 3.8 VOCAP: 1.5 H: 2 F: 2  
R: 1 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**5718S** nickel phosphate (0.5%), phosphoric acid (7%), water,  
zinc oxide (3%),  
GAL WT: 8.85 WT PCT SOLIDS: 10.24 VOL PCT SOLIDS: 4.53  
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOCAP: 0.0 H: 2 F: 1  
R: 1 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

### Product Manager - Refinish Sales

Prepared by D. G. Detweiler

# MATERIAL SAFETY DATA SHEET



## WATERBORNE PRODUCTS

### Section I - Manufacturer

**Manufacturer:**  
DuPont Co.  
Automotive  
Wilmington, Delaware 19898

**Telephone:**  
Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Waterborne Products  
**OSHA Hazard Class:** Combustible; Not Regulated  
**DOT Shipping Name:** See DOT addendum.  
**Hazardous Materials Information:** See Section X.

### Section II - Hazardous Ingredients (See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C, mm Hg)	Exposure Limits*
Acetone	67-64-1	184.0	500 ppm-A 8hr TWA 1000 ppm-O 8hr TWA 750 ppm-A 15 min (STEL) 500 ppm-D 8&12 hr
Acrylic polymer	Not Available	None	None-A,O
Aliphatic hydrocarbon/aliphatic ester/surfactant	Not Available	0.2 @ 25°C	None-A,O
Aliphatic solvent mixture	Not Available	Unknown	None-A,O
Ammonium hydroxide	1336-21-6	450.0 @ 15.5°C	None-A,O
Aromatic hydrocarbon	64742-95-6	10.0 @ 25°C	None-A,O
Barium sulfate	7727-43-7	None	10 mg/m <sup>3</sup> -A Total Dust 15 mg/m <sup>3</sup> -O Total Dust 5 mg/m <sup>3</sup> -O Dust, 8 hr Resp 10 mg/m <sup>3</sup> -D 8 hr TWA
Bisphenol A/Epoxy, phenolic resin	68334-76-9	None	None-A,O
Bisphenol-epichlorohydrin type polymer	25068-38-6	None	None-A,O
Block polymer(polyglycols)	25067-11-2	Unknown	None-A,O
Calcium carbonate	471-34-1	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Carbon black	1333-86-4	None	3.5 mg/m <sup>3</sup> -A,O .5 mg/m <sup>3</sup> -D 50 ppm-A,O Skin
Cumene	98-82-8	3.7	50 ppm-A,O Skin
Dipropylene glycol monobutyl ether	29911-28-2	Unknown	None-A,O
Ethylene glycol monobutyl ether	111-76-2	0.6	25 ppm-A Skin 50 ppm-O Skin 10 ppm-D Skin
Formaldehyde	50-00-0	Unknown	0.3 ppm-A Ceiling 0.7 ppm-O 2 ppm-O 15 min(STEL) 1 ppm-D 8&12 hr 2 ppm-D 15 min TWA
Hydrous Magnesium silicate	14807-96-6	None	2 mg/m <sup>3</sup> -A Resp None-O .5 mg/m <sup>3</sup> -D Resp
Iron oxide-A	1309-37-1	None	None-A,O

Iron oxide-B	1309-37-1	None	5 mg/m <sup>3</sup> -A 10 mg/m <sup>3</sup> -O
Kaolin	1332-58-7	None	10 mg/m <sup>3</sup> -A None-O
Medium mineral spirits	64742-88-7	None	100 ppm-D None-A,O
Methyl alcohol	67-56-1	100.0	200 ppm-A Skin 200 ppm-O 250 ppm-A Skin 15 min (STEL) 200 ppm-D Skin 8&12 hr TWA
n-Butoxypropanol	5131-66-8	0.6	None-A,O
Nonionic surfactant	Not Available	Unknown	None-A,O
Nonylphenoxypoly (ethyleneoxy) ethanol	9016-45-9	None	None-A,O
Polyether modified siloxane	Not Available	Unknown	None-A,O
Polyethylene amine mixture	Not Available	Unknown	25 ppm-S None-A,O
Propylene glycol butyl ether	57018-52-7	4.8 @ 25°C	None-A,O
Propylene glycol methyl ether	107-98-2	10.9 @ 25°C	100 ppm-A 150 ppm-A 15 min(STEL) None-O
Silica alumina ceramic	Not Available	None	None-A,O
Titanium dioxide	13463-67-7	None	10 mg/m <sup>3</sup> -A,O 5 mg/m <sup>3</sup> -O Resp 10 mg/m <sup>3</sup> -D
VM&P naphtha	64742-89-8	15 @ 37.8°C	300 ppm-A,O 400 ppm-O 15 min(STEL) 100 ppm-D
Water	7732-18-5	23.6	None-A,O
Wollastonite	13983-17-0	None	None-A,O 2 fibers/cc -D Resp 2 fibers/cc -D
Xylene	1330-20-7	7.0 @ 25°C	100 ppm-A,O 150 ppm-A 15 min(STEL) 100 ppm-D 8&12 hr 150 ppm-D 15 min TWA
Zinc phosphate	Not Available	None	10 mg/m <sup>3</sup> -A None-O
1,2,4-Trimethyl benzene	95-63-6	7.0 @ 44.4°C	25 ppm-A,O
2-propoxyethanol	2807-30-9	1.3 @ 25°C	25 ppm-S Skin None-A,O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

### Section III - Physical Data

Evaporation rate: Less than ether  
Vapor Density: Heavier than air  
Solubility in water: Miscible  
Percent volatile by volume: 60.5% - 100.0%  
Percent volatile by weight: 46% - 100%  
Boiling range: 54° C-232° C/129°F-450°F  
Gallon weight: 8.09 - 11.01 lb/gallon

## Section IV - Fire and Explosion Data

**Flash point** (closed cup): See Section X for exact values.

**Flammable limits:** 0.2% - 23%

**Extinguishing media:** Universal aqueous film-forming foam, carbon dioxide, dry chemical.

**Special fire fighting procedures:** Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

**Unusual fire & explosion hazards:** When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

## Section V - Health Hazard Data

### General Effects:

**Ingestion:** Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**

**Inhalation:** May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

**Skin or eye contact:** May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

### Specific Effects:

**Acrylic Polymer** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Aromatic Hydrocarbon** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**Bisphenol-Epichlorohydrin Type Polymer** Repeated exposure may cause allergic skin rash, itching, swelling. **Carbon Black** is an IARC, NTP or OSHA carcinogen. **Ethylene Glycol**

**Monobutylether** Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

**Formaldehyde** Repeated exposure may cause allergic skin rash, itching, swelling. Causes severe eye irritation. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. Epidemiology studies conducted to date have not found evidence of formaldehyde related tumor induction in humans. May induce pulmonary sensitization or significant irritation of the respiratory airways. Is an IARC, NTP or OSHA carcinogen. Has shown mutagenic activity in laboratory cell culture tests. **WARNING:** This chemical is known to the State of California to cause cancer.

**Hydrous Magnesium Silicate** Repeated and prolonged overexposure to talc may lead to typical x-ray changes and chronic lung disease. **Medium Mineral Spirits & VM&P Naphtha** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**Methyl Alcohol** Excessive human exposure to methanol may lead to: fatigue, headache, anaesthetic, neurologic effects, and visual difficulties including blindness or death. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Nonionic Surfactant** Contact may cause skin irritation with discomfort or rash. Causes eye corrosion and permanent injury.

**Nonylphenoxypoly(Ethyleneoxy)Ethanol** Liquid splashes in the eye may result in chemical burns. **Propylene Glycol Methyl Ether** Overexposure may lead to kidney, liver and lung damage. Individuals with preexisting diseases of the liver may have increased susceptibility to the toxicity of excessive exposures. Can be absorbed through the skin in harmful amounts. **Titanium Dioxide** In a lifetime inhalation test, lung cancers were found in

some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **2-Propoxyethanol-A** Can be absorbed through the skin in harmful amounts. May destroy red blood cells. Overexposure may cause damage to the kidneys, spleen and liver based on studies with laboratory animals. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility** (materials to avoid): None reasonably foreseeable.

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine and remove with inert absorbent.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120° F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

**PRODUCT CODE: Ingredients (See section II)**

**210S** acrylic polymer, carbon black, ethylene glycol monobutylether (1%), hydrous magnesium silicate, methyl alcohol (2%), titanium dioxide, water

GAL WT: 10.80 WT PCT SOLIDS: 45.91 VOL PCT SOLIDS: 28.46  
SOLVENT DENSITY: 8.17 VOC LE: 1.6 VOCAP: 0.6 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**2125S** acrylic polymer, barium sulfate, carbon black, dipropylene glycol monobutyl ether, hydrous magnesium silicate, kaolin, n-butoxypropanol, titanium dioxide, water

GAL WT: 10.37 WT PCT SOLIDS: 46.36 VOL PCT SOLIDS: 32.01  
SOLVENT DENSITY: 8.18 VOC LE: 1.6 VOCAP: 0.7 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**2140S** acrylic polymer, ammonium hydroxide, barium sulfate, dipropylene glycol monobutyl ether, ethylene glycol monobutylether (1%), hydrous magnesium silicate, iron oxide-a, kaolin, n-butoxypropanol, water

GAL WT: 10.50 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 30.66  
SOLVENT DENSITY: 8.17 VOC LE: 1.8 VOCAP: 0.7 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**2220S** acrylic polymer, calcium carbonate, dipropylene glycol monobutyl ether, ethylene glycol monobutylether (3%), hydrous magnesium silicate, iron oxide-b, methyl alcohol (2%), titanium dioxide, water

GAL WT: 10.91 WT PCT SOLIDS: 47.73 VOL PCT SOLIDS: 30.06  
SOLVENT DENSITY: 8.15 VOC LE: 1.9 VOCAP: 0.8 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**2405S** ethylene glycol monobutylether (6%), polyether modified siloxane (1%), polyethylene amine mixture, propylene glycol butyl ether, water, 2-propoxyethanol (13%)

GAL WT: 8.36 WT PCT SOLIDS: 21.63 VOL PCT SOLIDS: 18.33  
SOLVENT DENSITY: 8.02 VOC LE: 4.5 VOCAP: 2.1 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**2407S** ethylene glycol monobutylether (6%), polyethylene amine mixture, propylene glycol butyl ether, water, 2-propoxyethanol (14%)

GAL WT: 8.36 WT PCT SOLIDS: 20.68 VOL PCT SOLIDS: 17.39  
SOLVENT DENSITY: 8.03 VOC LE: 4.6 VOCAP: 2.1 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**2440S** bisphenol a/epoxy, phenolic resin, bisphenol-epichlorohydrin type polymer, carbon black, hydrous magnesium silicate, silica-alumina ceramic (7%), titanium dioxide, water, wollastonite, zinc phosphate (5%), 2-propoxyethanol (4%)

GAL WT: 11.01 WT PCT SOLIDS: 53.82 VOL PCT SOLIDS: 38.05  
SOLVENT DENSITY: 8.21 VOC LE: 1.4 VOCAP: 0.6 H: 2 F: 2  
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**275S** bisphenol a/epoxy, phenolic resin, bisphenol-epichlorohydrin type polymer, carbon black, ethylene glycol monobutylether (1%), hydrous magnesium silicate, silica alumina ceramic, titanium dioxide, water, wollastonite, zinc phosphate (9%), 2-propoxyethanol (4%)  
GAL WT: 10.93 WT PCT SOLIDS: 54.50 VOL PCT SOLIDS: 39.41  
SOLVENT DENSITY: 8.21 VOC LE: 1.4 VOCAP: 0.7 H: 2 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**285S** ethylene glycol monobutylether (2%), hydrous magnesium silicate, polyethylene amine mixture, propylene glycol methyl ether, titanium dioxide, water, wollastonite, 2-propoxyethanol (6%)  
GAL WT: 10.77 WT PCT SOLIDS: 42.25 VOL PCT SOLIDS: 23.64  
SOLVENT DENSITY: 8.15 VOC LE: 3.3 VOCAP: 1.4 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**3909S** aliphatic solvent mixture, water  
GAL WT: 8.30 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 8.30 VOC LE: 8.1 VOCAP: 0.5 H: 2 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**3929S** aromatic hydrocarbon, block polymer (polyglycols), cumene (0-1%), formaldehyde (0.1%), medium mineral spirits, nonylphenoxypoly(ethyleneoxy)ethanol, vm&p naphtha, water, xylene (1-2%), 1,2,4-trimethyl benzene (1-5%)  
GAL WT: 8.09 WT PCT SOLIDS: 7.71 VOL PCT SOLIDS: 7.29  
SOLVENT DENSITY: 8.05 VOC LE: 5.0 VOCAP: 1.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**3949S** aliphatic hydrocarbon/aliphatic ester/surfactant, water  
GAL WT: 8.25 WT PCT SOLIDS: 0.14 VOL PCT SOLIDS: 0.15  
SOLVENT DENSITY: 8.25 VOC LE: 6.9 VOCAP: 0.4 H: 0 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**952S** acetone, aromatic hydrocarbon, barium sulfate, bisphenol a/epoxy, phenolic resin, carbon black, ethylene glycol monobutylether (3%), hydrous magnesium silicate, methyl alcohol (1%), nonionic surfactant, water, 1,2,4-trimethyl benzene (0-1%), 2-propoxyethanol (3%)

GAL WT: 10.08 WT PCT SOLIDS: 45.59 VOL PCT SOLIDS: 30.90  
SOLVENT DENSITY: 7.94 VOC LE: 2.4 VOCAP: 1.1 H: 2 F: 2  
R: 0 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**956S** ethylene glycol monobutylether (6%), nonionic surfactant, polyethylene amine mixture, propylene glycol methyl ether, water, 2-propoxyethanol (14%)

GAL WT: 8.40 WT PCT SOLIDS: 22.02 VOL PCT SOLIDS: 18.64  
SOLVENT DENSITY: 8.05 VOC LE: 4.6 VOCAP: 2.2 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

**Product Manager - Refinish Sales**

Prepared by D. G. Detweiler



# CHROMAPREMIER SYSTEM

## Section I - Manufacturer

**Manufacturer:**  
DuPont Co.  
Automotive  
Wilmington, Delaware 19898

**Telephone:**  
Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Chroma Premier System ( Balancers, Binders).  
**OSHA Hazard Class:** Flammable liquid  
**DOT Shipping Name:** See DOT addendum  
**Hazardous Materials Information:** See Section X.

## Section II - Hazardous Ingredients (See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C. mm Hg)	Exposure Limits	Not Available	None	5 mg/m <sup>3</sup> -A Cr 10 mg/m <sup>3</sup> -O Dust 1 mg/m <sup>3</sup> -A Cr Ceiling 15 mg/m <sup>3</sup> -O Dust Ceiling
Acetic Acid Ester	90438-79-2	Unknown	None-A,O	Diethylene glycol monobutyl ether 112-34-5	0.1	5 ppm-D None-A,O
Acetone	67-64-1	184.0	500 ppm-A 8hr TWA 1000 ppm-O 8hr TWA 750 ppm-A 15 min (STEL) 500 ppm-D 8&12 hr	Diisobutyl ketone 108-83-8	1.7	25 ppm-A 50 ppm-O
Acrylic polymer A	96591-17-2	None	None-A,O	Ethyl acetate 141-78-6	76.0	400 ppm-A,O
Acrylic polymer B	Not Available	None	None-A,O	Ethyl 3-ethoxy propionate 763-69-9	Unknown	None-A,O 100 ppm-A,O
Acrylic polymer C	Not Available	None	None-A,O	Ethylbenzene 100-41-4	7.0	125 ppm-A 15 min(STEL) 25 ppm-D 8&12 hr
Acrylic polymer D	None	None	None-A,O	Green-purple pigment Not Available	None	5 mg/m <sup>3</sup> -A Cr 10 mg/m <sup>3</sup> -O Dust 1 mg/m <sup>3</sup> -A Cr Ceiling 15 mg/m <sup>3</sup> -O Dust Ceiling
Acrylic polymer E	Not Available	None	None-A,O	Hexyl acetate isomers 88230-35-7	0.7	50 ppm-A Hexyl Acet None-O
Acrylic polymer F	63150-02-7	None	None-A,O	Hydrous magnesium silicate 14807-96-6	None	2.0 mg/m <sup>3</sup> -A Resp None-O 0.5 mg/m <sup>3</sup> -D Resp
Aliphatic polyamine	Not Available	Unknown	None-A,O	Isobutyl acetate 110-19-0	12.5	150 ppm-A,O
Aliphatic polyisocyanate resin	28182-81-2	None	0.5 mg/m <sup>3</sup> -S 1.0 mg/m <sup>3</sup> -S 15 min(STEL) None-A,O	Isobutyl alcohol 78-83-1	10.0	50 ppm-A 100 ppm-O
Aromatic hydrocarbon	64742-95-6	10.0 @ 25°C	None-A,O	Isopropyl alcohol 67-63-0	33.0	400 ppm-A,O 500 ppm-A 15 min (STEL) 400 ppm-D 8&12 hr
Barium Sulfate	7727-43-7	None	10 mg/m <sup>3</sup> -A Total Dust 15 mg/m <sup>3</sup> -O Total Dust 5 mg/m <sup>3</sup> -O Dust, 8 hr Resp 10 mg/m <sup>3</sup> -D 8 hr	Ketone solvent 71808-49-6	5.8 @ 0°C	None-A,O
Benzene,1-chloro-4 (trifluoromethyl)	98-56-6	5.3	25 ppm-S Ceiling None-A,O	Medium mineral spirits 64742-88-7	None	100 ppm-D None-A,O
Bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate	41556-26-7	6.0	None-A,O	Melamine resin Not Available	None	None-A,O
Butyl acetate	123-86-4	8.0	150 ppm-A,O 200 ppm-A 15 min(STEL)	Methyl amyl ketone 110-43-0	2.2	50 ppm-A 100 ppm-O
Calcium carbonate	471-34-1	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp	Methyl ethyl ketone 78-93-3	71.0	200 ppm-A,O 300 ppm-A 15 min(STEL) 200 ppm-D 8&12 hr TWA 300 ppm-D 15 min TWA
Carbon black	1333-86-4	None	3.5 mg/m <sup>3</sup> -A,O .5 mg/m <sup>3</sup> -D	Methyl isoamyl ketone 110-12-3	4.5	50 ppm-A None-O
Cellulose acetate butyrate	9004-36-8	None	None-A,O	Methyl isobutyl carbinol 108-11-2	2.2	25 ppm-A,O Skin 40 ppm-A 15 min(STEL)
Cumene	98-82-8	3.7	50 ppm-A,O Skin	Methyl isobutyl ketone 108-10-1	15.0	50 ppm-A 100 ppm-O
Cyan-purple pigment				n-butyl alcohol 71-36-3	5.5	75 ppm-A 15 min(STEL)
				n-pentyl propionate 624-54-4	1.2	50 ppm-A C,Skin 100 ppm-O 25 ppm-D 50 ppm-D 15 min TWA
				Oxo-octyl acetate 108419-32-5	1.0 @ 25°C	None-A,O
				Perylene pigment 128-69-8	None	50 ppm-S None-A,O 10 mg/m <sup>3</sup> -A None-O

Petroleum naphtha 64742-89-8	50.0 @ 25°C	300 ppm-A,O 400 ppm-O 15 min(STEL) 100 ppm-D
Phthalocyanine green pigment 1328-53-6	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Polyester resin A 35561-07-0	None	None-A,O
Polyester resin B 65086-73-9	None	None-A,O
Polyethylene/vinyl acetate Not Available	None	None-A,O
Primary amyl acetate 628-63-7	4.0	100 ppm-A,O
Propionic acid, n-butyl ester 590-01-2	3.4 @ 25°C	None-A,O
Propylene glycol monomethyl ether acetate 108-65-6	3.7	None-A,O 10 ppm-D
Quinacridone pigment 1047-16-1	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Red/gold pigment Not Available	None	.5 mg/m <sup>3</sup> -A Cr 10 mg/m <sup>3</sup> -O Dust 1.0 mg/m <sup>3</sup> -A Cr Ceiling 15 mg/m <sup>3</sup> -O Dust Ceiling
Silver/green pigment Not Available	None	.5 mg/m <sup>3</sup> -A Cr 10 mg/m <sup>3</sup> -O Dust 1.0 mg/m <sup>3</sup> -A Cr Ceiling 15 mg/m <sup>3</sup> -O Dust Ceiling
Titanium dioxide 13463-67-7	None	10 mg/m <sup>3</sup> -A,O 5 mg/m <sup>3</sup> -O Resp 10 mg/m <sup>3</sup> -D
Toluene 108-88-3	36.7	50 ppm-A Skin 200 ppm-O 300 ppm-O Ceiling 500 ppm-O 10 min MAX 50 ppm-D 8&12 hr TWA
VM&P Naphtha 64742-89-8	15.0 @ 37.8°C	300 ppm-A,O 400 ppm-O 15 min(STEL) 100 ppm-D
Xylene 1330-20-7	7.0 @ 25°C	100 ppm-A,O 150 ppm-A 15 min(STEL) 100 ppm-D 8&12 hr 150 ppm-D 15 min TWA
Zinc phosphate 7779-90-0	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
1,2,4-Trimethyl benzene 95-63-6	7.0 @ 44.4°C	25 ppm-A,O
1,6-hexamethylene diisocyanate 822-06-0	Unknown	5 ppb-A None-O
2(2'-hydroxy-3,5'-diteramylphenyl) benzotriazole 25973-55-1	Unknown	None-A,O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

### Section III - Physical Data

Evaporation rate: Less than ether  
Vapor Density: Heavier than air  
Solubility in water: Miscible  
Percent volatile by volume: 41.6%- 100.00%  
Percent volatile by weight: 33.11 -100.0%  
Boiling range: 54°C- 245°C/129°F- 473°F  
Gallon weight: 6.61 - 12.87 lb/gallon

### Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.  
Flammable limits: 0.8%- 11.5%  
Extinguishing media: Universal aqueous film-forming foam,  
carbon dioxide, dry chemical.  
Special fire fighting procedures: Full protective equipment,

including self-contained breathing apparatus, is recommended.  
Water from fog nozzles may be used to cool closed containers to  
prevent pressure build up.

**Unusual fire & explosion hazards:** When heated above the  
flash point, emits flammable vapors which, when mixed with air,  
can burn or be explosive. Fine mists or sprays may be flammable at  
temperatures below the flash point.

### Section V - Health Hazard Data

#### General Effects:

**Ingestion:** Gastrointestinal distress. In the unlikely event of  
ingestion, call a physician immediately and have the names of  
ingredients available. **DO NOT INDUCE VOMITING.**

**Inhalation:** May cause nose and throat irritation. Repeated and  
prolonged overexposure to solvents may lead to permanent brain  
and nervous system damage. Eye watering, headaches, nausea,  
dizziness and loss of coordination are signs that solvent levels are  
too high. Exposure to isocyanates may cause respiratory sensitiza-  
tion. This effect may be permanent. This effect may be delayed for  
several hours after exposure. Repeated overexposure to isocyan-  
ates may cause a decrease in lung function which may be  
permanent. Individuals with breathing problems or prior reaction to  
isocyanates must not be exposed to vapors or spray mist of this  
product. If affected by inhalation of vapor or spray mist, remove to  
fresh air. If breathing difficulty persists, or occurs later, consult a  
physician.

**Skin or eye contact:** May cause irritation or burning of the eyes.  
Repeated or prolonged liquid contact may cause skin irritation with  
discomfort and dermatitis. In case of eye contact, immediately flush  
with plenty of water for at least 15 minutes; call a physician. In  
case of skin contact, wash with soap and water. If irritation  
occurs, contact a physician.

#### Specific Effects:

**ACETIC ACID ESTER** Repeated or prolonged liquid contact may  
cause skin irritation with discomfort and dermatitis. Over exposure  
may cause eye, nose and throat irritation. Repeated or prolonged  
liquid contact may cause skin irritation and dermatitis. May cause  
central nervous system effects such as dizziness, headache,  
nausea, and loss of consciousness. Repeated and prolonged  
overexposure to solvents may lead to permanent brain and  
nervous system damage. **ACRYLIC POLYMER-D** Contact may  
cause skin irritation with discomfort or rash. May cause eye  
irritation with discomfort, tearing, or blurred vision. **ALIPHATIC  
POLYISOCYANATE RESIN** Repeated exposure may cause allergic  
skin rash, itching, swelling. May cause eye irritation with discom-  
fort, tearing, or blurred vision. Repeated overexposure to isocyan-  
ates may cause lung injury, including a decrease in lung function,  
which may be permanent. Overexposure may cause asthma-like  
reactions with shortness of breath, wheezing, cough, which may  
be permanent; or permanent lung sensitization. This effect may be  
delayed for several hours after exposure. Individuals with  
preexisting lung disease, asthma or breathing difficulties may have  
increased susceptibility to the toxicity of excessive exposures.

**AROMATIC HYDROCARBON** Laboratory studies with rats have  
shown that petroleum distillates can cause kidney damage and  
kidney or liver tumors. These effects were not seen in similar  
studies with guinea pigs, dogs, or monkeys. Several studies  
evaluating petroleum workers have not shown a significant  
increase of kidney damage or an increase in kidney or liver tumors.

**BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE**  
Repeated exposure may cause allergic skin rash, itching, swelling.

**BUTYL ACETATE** May cause abnormal liver function. Tests for  
embryotoxic activity in animals has been inconclusive. Has been  
toxic to the fetus in laboratory animals at doses that are toxic to the  
mother. **CARBON BLACK** Is an IARC, NTP or OSHA carcinogen.

**DIETHYLENE GLYCOL MONOBUTYL ETHER** Contact may cause  
skin irritation with discomfort or rash. Recurrent overexposure may  
result in liver and kidney injury. High doses in laboratory animals  
have shown non specific effects such as irritation, weight loss,  
moderate blood changes. Tests for mutagenic activity in bacterial or  
mammalian cell cultures have been inconclusive. **DIISOBUTYL**

**KETONE** Extremely high oral and inhalation doses in laboratory  
animals have shown weight changes in various organs such as  
the liver, kidney, brain, heart and adrenal gland. In addition liver and  
kidney injury were observed at the extremely high inhalation level.

In another inhalation study there was a slight depression in the  
white blood cell count. Repeated exposure may cause allergic skin  
rash, itching, swelling. **ETHYL ACETATE** Prolonged and repeated  
high exposures of laboratory animals resulted in secondary anemia  
with an increase in white blood cells; fatty degeneration, cloudy  
swelling and an excess of blood in various organs. **ETHYL 3-  
ETHOXY PROPIONATE** Has been toxic to the fetus in laboratory  
animals at doses that are toxic to the mother. **ETHYLBENZENE**  
Recurrent overexposure may result in liver and kidney injury.  
Studies in laboratory animals have shown reproductive.

embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. **HYDROUS MAGNESIUM SILICATE** Repeated and prolonged overexposure to talc may lead to typical x-ray changes and chronic lung disease. **ISOBUTYL ALCOHOL** Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. Tests in laboratory animals have shown bone marrow and liver effects. May cause abnormal liver function. May cause irritation of the mucous membranes. **ISOPROPYL ALCOHOL** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **KETONE SOLVENT** Inhalation overexposure may cause lung injury, fluid in the lung, and difficulty in breathing. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. **MEDIUM MINERAL SPIRITS & PETROLEUM NAPHTHA** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **MELAMINE RESIN** This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. Epidemiology studies conducted to date have not found evidence of formaldehyde related tumor induction in humans. **WARNING:** This chemical is known to the State of California to cause cancer. **METHYL AMYL KETONE** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **METHYL ETHYL KETONE** High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. **METHYL ISOAMYL KETONE** Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed. **METHYL ISOBUTYL CARBINOL** Male rats exposed to very high airborne levels showed an increase in kidney weights. These effects were not seen in male rats exposed to lower concentrations, or in female rats at the same level. Liquid splashes in the eye may result in chemical burns. Extremely high concentrations have caused blood changes and weakness in laboratory animals. **METHYL ISOBUTYL KETONE** Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. **N-BUTYL ALCOHOL** Liquid splashes in the eye may result in chemical burns. May cause abnormal blood forming function with anemia. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. **N-PENTYL PROPIONATE** Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. May cause eye irritation with discomfort, tearing, or blurred vision. Material is irritating to mucous membranes and upper respiratory tract. **PRIMARY AMYL ACETATE** Recurrent overexposure may result in liver and kidney injury. **PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE** May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. **TITANIUM DIOXIDE** In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level are not relevant to the workplace. **TOLUENE** Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm. **VM&P NAPHTHA** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver

tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **XYLENE** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **1,6-HEXAMETHYLENE DIISOCYANATE** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** Water, amines, metal salts

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

20% Surfactant (Tergitol TMN 10) and 80% Water OR

0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash

thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE

### INGREDIENTS (See Section II)

**12305S** aliphatic polyisocyanate resin, hexyl acetate isomers, propylene glycol monomethyl ether acetate, toluene (7%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.82 WT PCT SOLIDS: 64.40 VOL PCT SOLIDS: 58.39  
SOLVENT DENSITY: 7.55 VOC LE: 3.1 VOCAP: 3.1 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**12365S** butyl acetate, ethylbenzene (2-5%), methyl ethyl ketone (25%), toluene (15%), xylene (15-18%)  
GAL WT: 7.12 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.12 VOC LE: 7.1 VOCAP: 7.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**12375S** butyl acetate, ethylbenzene (2-6%), methyl amyl ketone, methyl isobutyl ketone (10%), xylene (18-23%)  
GAL WT: 7.08 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.08 VOC LE: 7.1 VOCAP: 7.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**12385S** ethylbenzene (1-4%), hexyl acetate isomers, methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (11-14%)  
GAL WT: 7.40 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.40 VOC LE: 7.4 VOCAP: 7.4 H: 2 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**12395S** aromatic hydrocarbon, cumene (0-2%), ethyl 3-ethoxy propionate, hexyl acetate isomers, oxo-octylacetate, xylene (0-1%), 1,2,4-trimethyl benzene (3-14%)  
GAL WT: 7.37 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.37 VOC LE: 7.4 VOCAP: 7.4 H: 2 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**42410S** acrylic polymer-f, butyl acetate, calcium carbonate, ethylbenzene (3%), hexyl acetate isomers, hydrous magnesium silicate, isobutyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, xylene (13%), zinc phosphate (9%)  
GAL WT: 13.35 WT PCT SOLIDS: 68.16 VOL PCT SOLIDS: 41.32  
SOLVENT DENSITY: 7.24 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**42440S** acrylic polymer-f, barium sulfate, butyl acetate, calcium carbonate, carbon black, ethylbenzene (3%), hexyl acetate isomers, hydrous magnesium silicate, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, xylene (14%), zinc phosphate (9%)  
GAL WT: 12.89 WT PCT SOLIDS: 67.04 VOL PCT SOLIDS: 41.35  
SOLVENT DENSITY: 7.24 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**42455S** aliphatic polyamine, butyl acetate, ethyl acetate, ethylbenzene (0-2%), toluene (25%), xylene (6-7%)  
GAL WT: 7.33 WT PCT SOLIDS: 17.55 VOL PCT SOLIDS: 17.76  
SOLVENT DENSITY: 7.35 VOC LE: 6.0 VOCAP: 6.0 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**42470S** acrylic polymer-f, barium sulfate, butyl acetate, calcium carbonate, carbon black, ethylbenzene (3%), hexyl acetate isomers, hydrous magnesium silicate, isobutyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, xylene (13%), zinc phosphate (9%)  
GAL WT: 12.87 WT PCT SOLIDS: 66.89 VOL PCT SOLIDS: 41.24  
SOLVENT DENSITY: 7.25 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**42475S** aliphatic polyamine, hexyl acetate isomers, propylene glycol monomethyl ether acetate  
GAL WT: 7.68 WT PCT SOLIDS: 17.55 VOL PCT SOLIDS: 18.60  
SOLVENT DENSITY: 7.78 VOC LE: 6.3 VOCAP: 6.3 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**42495S** aliphatic polyamine, ethyl 3-ethoxy propionate, hexyl acetate isomers, propylene glycol monomethyl ether acetate  
GAL WT: 7.53 WT PCT SOLIDS: 17.54 VOL PCT SOLIDS: 18.21  
SOLVENT DENSITY: 7.59 VOC LE: 6.2 VOCAP: 6.2 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**52320N** acrylic polymer-c, bis(1,2,2,6,6-pentamethyl-4-piperidinyl)

sebacate, diethylene glycol monobutyl ether (3%), ethyl acetate, methyl amyl ketone, methyl ethyl ketone (10%), propylene glycol monomethyl ether acetate, xylene (0-1%)  
GAL WT: 7.98 WT PCT SOLIDS: 52.24 VOL PCT SOLIDS: 45.06  
SOLVENT DENSITY: 6.94 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**52330N** acrylic polymer-c, butyl acetate, methyl amyl ketone, methyl ethyl ketone (9%), propylene glycol monomethyl ether acetate, xylene (0-1%)  
GAL WT: 7.91 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 38.76  
SOLVENT DENSITY: 6.97 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**62320F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (2-6%), melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (18-23%)  
GAL WT: 7.38 WT PCT SOLIDS: 13.81 VOL PCT SOLIDS: 11.27  
SOLVENT DENSITY: 7.17 VOC LE: 6.3 VOCAP: 5.5 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**62330F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (2-6%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (17-21%)  
GAL WT: 7.54 WT PCT SOLIDS: 21.85 VOL PCT SOLIDS: 17.58  
SOLVENT DENSITY: 7.15 VOC LE: 5.8 VOCAP: 5.0 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**7155S** acetone, hexyl acetate isomers, isopropyl alcohol, primary amyl acetate, toluene (13%), vm&p naphtha  
GAL WT: 6.68 WT PCT SOLIDS: 0.19 VOL PCT SOLIDS: 0.14  
SOLVENT DENSITY: 6.68 VOC LE: 6.9 VOCAP: 2.8 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**7160S** butyl acetate, ethyl 3-ethoxy propionate, ethylbenzene (1%), isopropyl alcohol, methyl amyl ketone, methyl ethyl ketone (18%), petroleum naphtha, toluene (12%), xylene (5%)  
GAL WT: 6.61 WT PCT SOLIDS: 0.17 VOL PCT SOLIDS: 0.13  
SOLVENT DENSITY: 6.61 VOC LE: 6.6 VOCAP: 6.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**7175S** acetone, butyl acetate, ethylbenzene (2%), isopropyl alcohol, methyl amyl ketone, methyl isobutyl ketone (6%), petroleum naphtha, propionic acid, n-butyl ester, toluene (2%), vm&p naphtha, xylene (7%)  
GAL WT: 6.64 WT PCT SOLIDS: 0.17 VOL PCT SOLIDS: 0.13  
SOLVENT DENSITY: 6.64 VOC LE: 6.6 VOCAP: 6.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**7185S** acetic acid ester, aromatic hydrocarbon, medium mineral spirits, methyl amyl ketone, methyl isobutyl carbinol, vm&p naphtha, 1,2,4-trimethyl benzene (1%)  
GAL WT: 6.65 WT PCT SOLIDS: 0.17 VOL PCT SOLIDS: 0.13  
SOLVENT DENSITY: 6.65 VOC LE: 6.6 VOCAP: 6.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**7195S** diisobutyl ketone, ketone solvent, methyl isoamyl ketone, n-butyl alcohol (10%), n-pentyl propionate, vm&p naphtha, xylene (1%)  
GAL WT: 6.66 WT PCT SOLIDS: 0.17 VOL PCT SOLIDS: 0.13  
SOLVENT DENSITY: 6.66 VOC LE: 6.6 VOCAP: 6.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**72200S** acetone, acrylic polymer-b, acrylic polymer-d, benzene, 1-chloro-4 (trifluoromethyl), bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, ethylbenzene (2-7%), methyl ethyl ketone (10%), methyl isobutyl ketone (2%), polyester resin-b, xylene (20-25%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
GAL WT: 8.16 WT PCT SOLIDS: 54.03 VOL PCT SOLIDS: 48.03  
SOLVENT DENSITY: 7.22 VOC LE: 3.5 VOCAP: 3.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**72400S** acrylic polymer-e, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, butyl acetate, ethylbenzene (2-7%), methyl amyl ketone, methyl ethyl ketone (5%), polyester resin-b, xylene (21-25%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
GAL WT: 8.16 WT PCT SOLIDS: 59.40 VOL PCT SOLIDS: 53.50  
SOLVENT DENSITY: 7.12 VOC LE: 3.3 VOCAP: 3.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK700F** acetone, butyl acetate, cellulose acetate butyrate, cyan-purple pigment (3%), ethylbenzene (2-6%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (16-20%)  
GAL WT: 7.71 WT PCT SOLIDS: 24.06 VOL PCT SOLIDS: 18.08  
SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK701F** acetone, butyl acetate, cellulose acetate butyrate, cyan-purple pigment (2%), ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (19%)  
GAL WT: 7.67 WT PCT SOLIDS: 23.95 VOL PCT SOLIDS: 18.41  
SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK702F** acetone, butyl acetate, cellulose acetate butyrate, cyan-purple pigment (2%), ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (19%)

GAL WT: 7.71 WT PCT SOLIDS: 24.29 VOL PCT SOLIDS: 18.34  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK703F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, cyan-purple pigment (2%), ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (21%)  
 GAL WT: 7.68 WT PCT SOLIDS: 24.40 VOL PCT SOLIDS: 18.85  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK704F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, cyan-purple pigment (2%), ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, quinacridone pigment, xylene (23%)  
 GAL WT: 7.77 WT PCT SOLIDS: 26.72 VOL PCT SOLIDS: 20.50  
 SOLVENT DENSITY: 7.16 VOC LE: 5.6 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK705F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, cyan-purple pigment (2%), ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (20%)  
 GAL WT: 7.70 WT PCT SOLIDS: 24.66 VOL PCT SOLIDS: 18.89  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK720F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (2-6%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (16-20%)  
 GAL WT: 7.67 WT PCT SOLIDS: 23.50 VOL PCT SOLIDS: 17.90  
 SOLVENT DENSITY: 7.15 VOC LE: 5.8 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK721F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (18%)  
 GAL WT: 7.68 WT PCT SOLIDS: 23.83 VOL PCT SOLIDS: 18.17  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK722F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (18%)  
 GAL WT: 7.69 WT PCT SOLIDS: 23.78 VOL PCT SOLIDS: 18.04  
 SOLVENT DENSITY: 7.15 VOC LE: 5.8 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK724F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, perylene pigment, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (20%)  
 GAL WT: 7.71 WT PCT SOLIDS: 25.70 VOL PCT SOLIDS: 19.96  
 SOLVENT DENSITY: 7.16 VOC LE: 5.6 VOCAP: 4.9 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK725F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (21%)  
 GAL WT: 7.74 WT PCT SOLIDS: 25.47 VOL PCT SOLIDS: 19.45  
 SOLVENT DENSITY: 7.16 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK726F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, red/gold pigment (2%), xylene (21%)  
 GAL WT: 7.70 WT PCT SOLIDS: 24.41 VOL PCT SOLIDS: 18.67  
 SOLVENT DENSITY: 7.16 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK740F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (2-5%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, silver/green pigment (4%), xylene (16-20%)  
 GAL WT: 7.77 WT PCT SOLIDS: 24.75 VOL PCT SOLIDS: 18.23  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK741F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, silver/green pigment (2%), xylene (19%)  
 GAL WT: 7.67 WT PCT SOLIDS: 23.75 VOL PCT SOLIDS: 18.24  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK742F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, silver/green pigment (3%), xylene (18%)  
 GAL WT: 7.71 WT PCT SOLIDS: 24.09 VOL PCT SOLIDS: 18.14  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3

R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK743F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, phthalocyanine green pigment, polyester resin-a, polyethylene/vinyl acetate, silver/green pigment (3%), xylene (22%)  
 GAL WT: 7.84 WT PCT SOLIDS: 26.57 VOL PCT SOLIDS: 19.63  
 SOLVENT DENSITY: 7.16 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK744F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, phthalocyanine green pigment, polyester resin-a, polyethylene/vinyl acetate, silver/green pigment (3%), xylene (22%)  
 GAL WT: 7.79 WT PCT SOLIDS: 25.85 VOL PCT SOLIDS: 19.29  
 SOLVENT DENSITY: 7.16 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK745F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, silver/green pigment (3%), xylene (21%)  
 GAL WT: 7.75 WT PCT SOLIDS: 25.57 VOL PCT SOLIDS: 19.35  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK760F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (2-5%), green-purple pigment (4%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (16-20%)  
 GAL WT: 7.79 WT PCT SOLIDS: 25.07 VOL PCT SOLIDS: 18.33  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK761F** acetone, acrylic polymer-a, butyl acetate, carbon black, cellulose acetate butyrate, ethylbenzene (4%), green-purple pigment (2%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (19%)  
 GAL WT: 7.67 WT PCT SOLIDS: 24.36 VOL PCT SOLIDS: 18.92  
 SOLVENT DENSITY: 7.16 VOC LE: 5.7 VOCAP: 4.9 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK762F** acetone, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), green-purple pigment (3%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (18%)  
 GAL WT: 7.71 WT PCT SOLIDS: 24.09 VOL PCT SOLIDS: 18.16  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK763F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), green-purple pigment (3%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (20%)  
 GAL WT: 7.75 WT PCT SOLIDS: 25.72 VOL PCT SOLIDS: 19.52  
 SOLVENT DENSITY: 7.15 VOC LE: 5.6 VOCAP: 4.9 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK764F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), green-purple pigment (3%), isobutyl alcohol, melamine resin, phthalocyanine green pigment, polyester resin-a, polyethylene/vinyl acetate, xylene (21%)  
 GAL WT: 7.77 WT PCT SOLIDS: 25.60 VOL PCT SOLIDS: 19.19  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**KK765F** acetone, acrylic polymer-a, butyl acetate, cellulose acetate butyrate, ethylbenzene (4%), green-purple pigment (3%), isobutyl alcohol, melamine resin, polyester resin-a, polyethylene/vinyl acetate, xylene (21%)  
 GAL WT: 7.75 WT PCT SOLIDS: 25.57 VOL PCT SOLIDS: 19.37  
 SOLVENT DENSITY: 7.15 VOC LE: 5.7 VOCAP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

## Product Manager - Refinish Sales

Prepared by D. G. Detweiler



# CROMAX™ WBC WATERBORNE BASECOATS

## Section I - Manufacturer

### Manufacturer:

DuPont Co.  
Automotive  
Wilmington, Delaware 19898

### Telephone:

Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Cromax WBC™ Waterborne Basecoats

OSHA Hazard Class: Combustible; Not Regulated

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section X.

## Section II - Hazardous Ingredients

(See Section X)

Ingredients CAS No.	Vapor Pressure (20°C. mm Hg)	Exposure Limits *		
Acrylic polymer A	None	None-A,O	Iron oxide	1309-37-1 None 5 mg/m <sup>3</sup> -A 10 mg/m <sup>3</sup> -O
Not Available	None	None-A,O	Isobutyl alcohol	78-83-1 10.0 50 ppm-A 100 ppm-O
Acrylic polymer B	None	None-A,O	Isindolinone-nickel complex	Not Available None 50 µg/m <sup>3</sup> -A Ni 1 mg/m <sup>3</sup> -O Ni
Not Available	None	None-A,O	Isindolinone pigment	36888-99-0 None 10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Acrylic polymer C	None	None-A,O	Isopropyl alcohol	67-63-0 33.0 400 ppm-A,O 500 ppm-A 15 min(STEL) 400 ppm-D 8&12 hr
Not Available	None	None-A,O	Medium mineral spirits	64742-88-7 10.0 100 ppm-D None-A,O
Acrylic polymer D	None	None-A,O	Methyl pyrrolidone	872-50-4 Unknown None-A,O 25 ppm-D
Not Available	None	None-A,O	Mica	12001-26-2 None 25 ppm-D None-A,O
Acrylic polymer E	None	None-A,O	Mica/titanium dioxide/tin oxide	Not Available None 3 mg/m <sup>3</sup> -A,O Mica Resp 2 mg/m <sup>3</sup> -A,O Tin Oxide
Not Available	None	None-A,O	Mica/titanium dioxide/tin oxide/chromium hydroxide	Not Available None 3 mg/m <sup>3</sup> -A,O Mica Resp 2 mg/m <sup>3</sup> -A,O Tin Oxide Resp .5 mg/m <sup>3</sup> -A,O Cr Resp
Acrylic polymer F	None	None-A,O	Monoazo yellow pigment	12236-62-3 None 10 mg/m <sup>3</sup> -A None-O
Not Available	None	None-A,O	n-butoxypropanol	5131-66-8 0.6 None-A,O
Acrylic polymer G	None	None-A,O	n-butyl alcohol	71-36-3 5.5 50 ppm-A C Skin 100 ppm-O 25 ppm-D 50 ppm-D 15 min TWA
Aliphatic solvent mixture	Unknown	None-A,O	n-Pentanol	71-41-0 1.5 None-A,O
Not Available	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp	Nickel oxide	1313-99-1 None 1 mg/m <sup>3</sup> -A,O Ni
Aluminum	7429-90-5	None	Nickel,antimony, titanium yellow pigment	8007-18-9 None 0.5 mg/m <sup>3</sup> -A,O Sb 1 mg/m <sup>3</sup> -A,O Ni
Ammonia hydroxide-A	1336-21-6	76.0	Octylphenoxypolyethoxyethano surfactant	9036-19-5 1.0 None-A,O
Ammonia hydroxide-B	1336-21-6	450.0 @ 15.5°C	Organic alkyl phosphate ester	Not Available Unknown None-A,O
Amorphous silica - precipitated	112926-00-8	None	Perylene pigment	128-69-8 None 10 mg/m <sup>3</sup> -A None-O
Anthraquinone pigment	Not Available	None	Phthalocyanine blue pigment	147-14-8 None 1 mg/m <sup>3</sup> -A,O CU 8 hr
Not Available	None	10 mg/m <sup>3</sup> -A None-O	Phthalocyanine green pigment	1328-53-6 None 10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Aromatic hydrocarbon	64742-95-6	10.0 @ 25°C	Polyurethane polymer	Not Available None None-O
Carbon black	1333-86-4	None	Quinacridone pigment	1047-16-1 None 10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Chromium (III) Oxide	1308-38-9	None	Quinophthalone yellow pigment	30125-47-4 None 10 mg/m <sup>3</sup> -A None-O
Diketopyrrolopyrrol red pigment	Not Available	None	Tetrachloroisindolinone yellow pigment	
Dioxazine carbazole pigment	4378-61-4	None		
Ethylene glycol monobutyl ether	111-76-2	0.6		
Graphite, synthetic	Not Available	None		
Not Available	None	2 mg/m <sup>3</sup> -A Resp 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp		

5590-18-1	None	10 mg/m <sup>3</sup> -A None-O
Titanium dioxide 13463-67-7	None	10 mg/m <sup>3</sup> -A,O 5 mg/m <sup>3</sup> -O Resp 10 mg/m <sup>3</sup> -D
Water	7732-18-5	23.6 None-A,O
2-propoxyethanol 2807-30-9	1.3 @ 25°C	25 ppm-S Skin None-A,O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

### Section III - Physical Data

**Evaporation rate:** Less than ether  
**Vapor Density:** Heavier than air  
**Solubility in water:** Miscible  
**Percent volatile by volume:** 65.1% - 100%  
**Percent volatile by weight:** 56.2% - 100%  
**Boiling range:** 26° C - 216° C/79°F - 421°F  
**Gallon weight:** 8.3 - 10.5 lb/gallon

### Section IV - Fire and Explosion Data

**Flash point (closed cup):** See Section X for exact values.  
**Flammable limits:** 0.2% - 23%  
**Extinguishing media:** Universal aqueous film-forming foam, carbon dioxide, dry chemical.  
**Special fire fighting procedures:** Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.  
**Unusual fire & explosion hazards:** When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

### Section V - Health Hazard Data

#### General Effects:

**Ingestion:** Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**

**Inhalation:** May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

**Skin or eye contact:** May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

#### Specific Effects:

**Acrylic Polymer-D & G** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Aromatic Hydrocarbon** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Carbon Black** Is an IARC, NTP or OSHA carcinogen. **Ethylene Glycol Monobutylether** Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Isobutyl Alcohol** Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. Tests in laboratory animals have shown bone marrow and liver effects. May cause abnormal liver function. May cause irritation of the mucous membranes. **Isoindoline-Nickel Complex** Repeated exposure may cause allergic skin rash, itching, swelling. Is an IARC, NTP or OSHA carcinogen. **WARNING:** This chemical is known to the State of

California to cause cancer. **Isopropyl Alcohol** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Medium Mineral Spirits** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Methyl Pyrrolidone** Tests in some laboratory animals indicate this compound may have embryotoxic activity. **Mica** Repeated and prolonged overexposure may lead to chronic lung disease. **N-Butyl Alcohol** Liquid splashes in the eye may result in chemical burns. May cause abnormal blood forming function with anemia. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. **Nickel Oxide & Nickel, Antimony, Titanium Yellow Pigment** Is an IARC, NTP or OSHA carcinogen. The components of this pigment are combined chemically into a uniform substance which does not necessarily reflect the properties of the components metals or oxides. **WARNING:** This chemical is known to the State of California to cause cancer.

**Octylphenoxypolyethoxyethanol Surfactant** Causes eye corrosion and permanent injury. Contact may cause skin irritation with discomfort or rash. **Quinophthalone Yellow Pigment** Contact may cause skin irritation with discomfort or rash. Ingestion may result in gastric disturbances. **Titanium Dioxide** In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. **2-Propoxyethanol** Can be absorbed through the skin in harmful amounts. May destroy red blood cells. Overexposure may cause damage to the kidneys, spleen and liver based on studies with laboratory animals. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

### Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** None reasonably foreseeable.

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

### Section VII - Spill or Leak Procedures

#### Steps to be taken in case material is released or spilled:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine and remove with inert absorbent.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

### Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE:

### INGREDIENTS

**1401W** acrylic polymer-a, acrylic polymer-f, ammonium hydroxide-b, isobutyl alcohol, titanium dioxide, water, 2-propoxyethanol (2%)  
GAL WT: 10.31 WT PCT SOLIDS: 37.05 VOL PCT SOLIDS: 21.07  
SOLVENT DENSITY: 8.22 VOC LE: 1.6 VOCAP: 0.4 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1402W** acrylic polymer-a, ammonium hydroxide-b, titanium dioxide, water,  
GAL WT: 8.72 WT PCT SOLIDS: 15.16 VOL PCT SOLIDS: 10.97  
SOLVENT DENSITY: 8.31 VOC LE: 0.6 VOCAP: 0.1 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1403W** acrylic polymer-b, acrylic polymer-c, ethylene glycol monobutylether (3%), titanium dioxide, water  
GAL WT: 9.73 WT PCT SOLIDS: 27.11 VOL PCT SOLIDS: 14.08  
SOLVENT DENSITY: 8.25 VOC LE: 2.0 VOCAP: 0.4 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1404W** acrylic polymer-a, acrylic polymer-g, ammonium hydroxide-b, carbon black, n-pentanol, water, 2-propoxyethanol (2%)  
GAL WT: 8.41 WT PCT SOLIDS: 17.52 VOL PCT SOLIDS: 15.94  
SOLVENT DENSITY: 8.25 VOC LE: 1.7 VOCAP: 0.4 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1405W** acrylic polymer-a, acrylic polymer-g, ammonium hydroxide-b, carbon black, water,  
GAL WT: 8.57 WT PCT SOLIDS: 14.60 VOL PCT SOLIDS: 11.99  
SOLVENT DENSITY: 8.32 VOC LE: 0.1 VOCAP: 0.0 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1406W** acrylic polymer-a, acrylic polymer-c, ammonium hydroxide-b, carbon black, water,  
GAL WT: 8.76 WT PCT SOLIDS: 18.71 VOL PCT SOLIDS: 14.25  
SOLVENT DENSITY: 8.30 VOC LE: 0.3 VOCAP: 0.1 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1407W** acrylic polymer-a, ammonium hydroxide-b, carbon black, water,  
GAL WT: 8.41 WT PCT SOLIDS: 10.35 VOL PCT SOLIDS: 9.33  
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOCAP: 0.0 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1408W** acrylic polymer-a, acrylic polymer-b, ammonium hydroxide-b, ethylene glycol monobutylether (1%), graphite, synthetic, water  
GAL WT: 9.32 WT PCT SOLIDS: 23.48 VOL PCT SOLIDS: 14.06  
SOLVENT DENSITY: 8.30 VOC LE: 0.9 VOCAP: 0.1 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1411W** acrylic polymer-a, acrylic polymer-f, aluminum (3%), n-pentanol, water,  
GAL WT: 8.42 WT PCT SOLIDS: 14.61 VOL PCT SOLIDS: 11.77  
SOLVENT DENSITY: 8.15 VOC LE: 3.0 VOCAP: 0.6 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**1412W** acrylic polymer-a, acrylic polymer-f, aluminum (3%), n-butyl alcohol (1%), n-pentanol, water  
GAL WT: 8.39 WT PCT SOLIDS: 14.13 VOL PCT SOLIDS: 11.68  
SOLVENT DENSITY: 8.16 VOC LE: 2.9 VOCAP: 0.6 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**1413W** acrylic polymer-a, acrylic polymer-f, aluminum (3%), isobutyl alcohol, medium mineral spirits, n-butyl alcohol (1%), n-pentanol, water  
GAL WT: 8.40 WT PCT SOLIDS: 13.52 VOL PCT SOLIDS: 10.85  
SOLVENT DENSITY: 8.15 VOC LE: 3.1 VOCAP: 0.6 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**1414W** acrylic polymer-a, acrylic polymer-f, aluminum (3%), n-butyl alcohol (1%), n-pentanol, water  
GAL WT: 8.43 WT PCT SOLIDS: 14.94 VOL PCT SOLIDS: 11.95  
SOLVENT DENSITY: 8.14 VOC LE: 3.0 VOCAP: 0.7 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**1416W** acrylic polymer-a, acrylic polymer-d, aluminum (5%), aromatic hydrocarbon, n-butyl alcohol (3%), n-pentanol, water  
GAL WT: 8.41 WT PCT SOLIDS: 16.61 VOL PCT SOLIDS: 12.64  
SOLVENT DENSITY: 8.03 VOC LE: 4.0 VOCAP: 1.2 H: 2 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**1417W** acrylic polymer-a, acrylic polymer-f, aluminum (3%),

medium mineral spirits, n-butyl alcohol (1%), n-pentanol, water  
GAL WT: 8.42 WT PCT SOLIDS: 13.75 VOL PCT SOLIDS: 11.01  
SOLVENT DENSITY: 8.16 VOC LE: 2.9 VOCAP: 0.6 H: 1 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**1418W** acrylic polymer-a, acrylic polymer-f, ammonium hydroxide-b, amorphous silica - precipitated, isobutyl alcohol, water  
GAL WT: 8.86 WT PCT SOLIDS: 22.41 VOL PCT SOLIDS: 16.78  
SOLVENT DENSITY: 8.26 VOC LE: 1.0 VOCAP: 0.2 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1419W** acrylic polymer-a, aluminum (3%), medium mineral spirits, n-pentanol, water,  
GAL WT: 8.41 WT PCT SOLIDS: 12.53 VOL PCT SOLIDS: 9.81  
SOLVENT DENSITY: 8.16 VOC LE: 3.6 VOCAP: 0.7 H: 2 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**1420W** acrylic polymer-a, acrylic polymer-b, ammonium hydroxide-b, dioxazine carbozole pigment, ethylene glycol monobutylether (2%), water  
GAL WT: 8.44 WT PCT SOLIDS: 11.80 VOL PCT SOLIDS: 10.32  
SOLVENT DENSITY: 8.30 VOC LE: 1.1 VOCAP: 0.1 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1421W** acrylic polymer-a, acrylic polymer-c, ammonium hydroxide-b, anthraquinone pigment, isopropyl alcohol, water  
GAL WT: 8.59 WT PCT SOLIDS: 16.96 VOL PCT SOLIDS: 13.91  
SOLVENT DENSITY: 8.29 VOC LE: 0.8 VOCAP: 0.1 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1425W** acrylic polymer-a, ammonium hydroxide-b, water  
GAL WT: 8.41 WT PCT SOLIDS: 9.77 VOL PCT SOLIDS: 8.74  
SOLVENT DENSITY: 8.32 VOC LE: 0.2 VOCAP: 0.0 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1426W** acrylic polymer-a, acrylic polymer-b, ethylene glycol monobutylether (4%), phthalocyanine blue pigment, water  
GAL WT: 8.81 WT PCT SOLIDS: 25.62 VOL PCT SOLIDS: 20.73  
SOLVENT DENSITY: 8.27 VOC LE: 1.3 VOCAP: 0.3 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1427W** acrylic polymer-a, acrylic polymer-b, ethylene glycol monobutylether (3%), phthalocyanine blue pigment, water  
GAL WT: 8.71 WT PCT SOLIDS: 21.15 VOL PCT SOLIDS: 17.14  
SOLVENT DENSITY: 8.29 VOC LE: 1.1 VOCAP: 0.2 H: 1 F: 1  
R: 1 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1428W** acrylic polymer-a, acrylic polymer-b, ammonium hydroxide-b, ethylene glycol monobutylether (2%), phthalocyanine blue pigment, water  
GAL WT: 8.69 WT PCT SOLIDS: 21.76 VOL PCT SOLIDS: 18.00  
SOLVENT DENSITY: 8.29 VOC LE: 0.9 VOCAP: 0.2 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1429W** acrylic polymer-a, acrylic polymer-b, ammonium hydroxide-b, ethylene glycol monobutylether (2%), phthalocyanine blue pigment, water  
GAL WT: 8.66 WT PCT SOLIDS: 18.72 VOL PCT SOLIDS: 15.13  
SOLVENT DENSITY: 8.29 VOC LE: 1.1 VOCAP: 0.2 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1430W** acrylic polymer-a, acrylic polymer-b, ammonium hydroxide-b, ethylene glycol monobutylether (4%), phthalocyanine green pigment, water  
GAL WT: 8.80 WT PCT SOLIDS: 21.50 VOL PCT SOLIDS: 16.45  
SOLVENT DENSITY: 8.27 VOC LE: 1.5 VOCAP: 0.3 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1431W** acrylic polymer-a, ammonium hydroxide-b, water,  
GAL WT: 8.43 WT PCT SOLIDS: 11.40 VOL PCT SOLIDS: 10.12  
SOLVENT DENSITY: 8.31 VOC LE: 0.3 VOCAP: 0.0 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1432W** acrylic polymer-a, acrylic polymer-b, ammonium hydroxide-b, ethylene glycol monobutylether (2%), phthalocyanine green pigment, water  
GAL WT: 8.89 WT PCT SOLIDS: 20.20 VOL PCT SOLIDS: 14.46  
SOLVENT DENSITY: 8.29 VOC LE: 1.1 VOCAP: 0.2 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1433W** acrylic polymer-a, acrylic polymer-b, ammonium hydroxide-b, ethylene glycol monobutylether (2%), tetrachloroisosolinone yellow pigment, water  
GAL WT: 8.66 WT PCT SOLIDS: 20.40 VOL PCT SOLIDS: 16.83  
SOLVENT DENSITY: 8.29 VOC LE: 1.0 VOCAP: 0.2 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1440W** acrylic polymer-a, ammonium hydroxide-b, nickel oxide (1%), nickel, antimony, titanium (24%), water  
GAL WT: 10.45 WT PCT SOLIDS: 33.51 VOL PCT SOLIDS: 16.37  
SOLVENT DENSITY: 8.31 VOC LE: 0.2 VOCAP: 0.0 H: 1 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1441W** acrylic polymer-b, ethylene glycol monobutylether (16%), octylphenoxypolyethoxyethanol surfactant, quinophthalone yellow pigment, water  
GAL WT: 9.80 WT PCT SOLIDS: 41.46 VOL PCT SOLIDS: 28.87  
SOLVENT DENSITY: 8.07 VOC LE: 3.2 VOCAP: 1.6 H: 2 F: 2  
R: 1 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB

**1443W** acrylic polymer-b, monoazo pigment,



# IMRON® 5000 POLYURETHANE ENAMELS

## Section I - Manufacturer

**Manufacturer:**  
DuPont Co.  
Automotive  
Wilmington, Delaware 19898

**Telephone:**  
Product information (800) 441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Imron® 5000 Polyurethane Enamels  
**OSHA Hazard Class:** Flammable liquid  
**DOT Shipping Name:** See DOT addendum.  
**Hazardous Materials Information:** See Section X.

## Section II - Hazardous Ingredients (See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C, mm Hg)	Exposure Limits
Acetic acid ester	90438-79-2	Unknown	None-A, O
Acetone	67-64-1	184.0	500 ppm-A 8 hr TWA 1000 ppm-O 8 hr TWA 750 ppm-A 15 min (STEL) 500 ppm-A 8 & 12 hr
Acrylic polymer A	42767-92-0	None	None-A, O
Acrylic polymer B	Not Available	None	None-A, O
Acrylic polymer C	77358-01-1	None	None-A, O
Acrylic polymer D	70942-12-0	None	None-A, O
Acrylic polymer E	70942-12-0	None	None-A, O
Acrylic polymer F	96591-17-2	None	None-A, O
Acrylic polymer G	104032-39-5	None	None-A, O
Acrylic polymer H	25067-83-8	None	None-A, O
Acrylic polymer I	26061-99-4	None	None-A, O
Acrylic polymer J	Not Available	None	None-A, O
Acrylic polymer K	148969-95-3	None	None-A, O
Acrylic polymer L	Not Available	None	None-A, O
Aliphatic polymeric isocyanate	3779-63-3	None	1 mg/m³-S 15 min (STEL) 0.5 mg/m³-S 8 hr TWA None-A, O 10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp 0.2 mg/m³-A Resp 15 mg/m³-O 5 mg/m³-O Resp 1.0 mg/m³-A 15 min (STEL)
Aluminum	7429-90-5	None	None-A, O 10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp 0.2 mg/m³-A Resp 15 mg/m³-O 5 mg/m³-O Resp 1.0 mg/m³-A 15 min (STEL)
Amorphous Silica	7631-86-9	None	None-A, O 10 mg/m³-A Total Dust 15 mg/m³-O Total Dust 5 mg/m³-O Dust 8 hr Resp 10 mg/m³-D 8 hr TWA
Anthraquinone pigment	Not Available	None	10 mg/m³-A None-O
Aromatic hydrocarbon	64742-95-6	10.0 @ 25°C	None-A, O
Barium sulfate	7727-43-7	None	None-A, O 10 mg/m³-A Total Dust 15 mg/m³-O Total Dust 5 mg/m³-O Dust 8 hr Resp 10 mg/m³-D 8 hr TWA
Bis(1-2,2,6,6-pentamethyl-4-piperdiny) sebacate			
Butyl acetate	41556-26-7 123-86-4	6.0 8.0	None-A, O 150 ppm-A, O 200 ppm-A 15 min (STEL)
C.I Pigment Red 179	5521-31-3	None	None-A, O
Calcium carbonate	471-34-1	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp 3.5 mg/m³-A, O 5 mg/m³-D
Carbon black	1333-86-4	None	None
Dibutyl tin dilaurate	77-58-7	0.2 @ 60°C	0.1 mg/m³-O as Sn 0.1 mg/m³-A Skin as Sn
Diketopyrrolopyrrol red pigment	Not Available	None	None-A, O
Dioxazine carbozole pigment	4378-61-4	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp 400 ppm-A, O 100 ppm-A, O 125 ppm-A 15 min (STEL) 25 ppm-D 8 & 12 hr
Ethyl acetate	141-78-6	76.0	None
Ethylbenzene	100-41-4	7.0	None
Ethylene glycol monobutyl ether acetate	112-07-2	0.3	20 ppm-D Skin None-A, O
Ferric hexacyanoferrate	14038-43-8	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp 400 ppm-A 500 ppm-O 500 ppm-A 15 min (STEL)
Heptane	142-82-5	40.0	None
Hydrous magnesium silicate	14807-96-6	None	2 mg/m³-A Resp None-O 5 mg/m³-D Resp 5 mg/m³-A 10 mg/m³-O
Iron oxide	1309-37-1	None	None
Isoindolinone pigment	36888-99-0	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Isopropyl alcohol	67-63-0	33.0	400 ppm-A, O 500 ppm-A 15 min (STEL) 400 ppm-D 8 & 12 hr 10 mg/m³-A None-O
Kaolin	1332-58-7	None	None
Lead chromate	18454-12-1	None	50 µg/m³-A, O Pb 12 µg/m³-A Cr 1 mg/m³-O Cr Ceiling
Lead chromate molybdate	12656-85-8	None	50 µg/m³-A, O Pb 12 µg/m³-A Cr 1 mg/m³-O Cr Ceiling
Medium mineral spirits	64742-88-7	None	100 ppm-D None-A, O
Methyl amyl ketone	110-43-0	2.2	50 ppm-A 100 ppm-O
Methyl ethyl ketone	78-93-3	71.0	200 ppm-A, O 300 ppm-A 15 min (STEL) 200 ppm-D 8 & 12 hr TWA 300 ppm-D 15 min TWA
Monoazo pigment	12236-62-3	None	10 mg/m³-A None-O
n-Butyl alcohol	71-36-3	5.5	50 ppm-A C Skin 100 ppm-O 25 ppm-D

Nickel azo complex	Not Available	None	50 ppm-D 15 min. TWA
Nickel oxide	1313-99-1	None	50 µg/m³-A, Ni 1.0 mg/m³-O Ni
Nickel, Antimony, Titanium Yellow Pigment	8007-18-9	None	1.0mg/m³-A,O Ni
Organoclay	68911-87-5	None	0.5 mg/m³-A,O Sb 1 mg/m³-A,O Ni
Phthalocyanine blue pigment	147-14-8	None	None-A,O
Phthalocyanine green pigment	1328-53-6	None	1.0 mg/m³-A,O CU, 8 hr
Polyester resin	71010-58-7	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Polyol	68551-65-5	Unknown	None-A,O
Primary amyl acetate	628-63-7	4.0	100 ppm-A,O
Propylene glycol monomethyl ether acetate	108-65-6	3.7	None-A,O 10 ppm-D
Quinacridone pigment	1047-16-1	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Quinophthalone yellow pigment	30125-47-4	None	10 mg/m³-A None-O
Stoddard Solvent	8052-41-3	None	100 ppm-A,O
Titanium dioxide	13463-67-7	None	10 mg/m³-A,O 10 mg/m³-D 5 mg/m³-O Resp
Toluene	108-88-3	36.7	50 ppm-A Skin 200 ppm-O 300 ppm-O Ceiling 500 ppm-O 10 min MAX 50 ppm-D 8 & 12 hr TWA
VM&P Naphtha	64742-89-8	15.0 @ 37.8°C	300 ppm-A,O 400 ppm-O 15 min(STEL) 100 ppm-D
Xylene	1330-20-7	7.0 @ 25°C	100 ppm-A,O 150 ppm-A 15 min(STEL) 100 ppm-D 8 & 12 hr 150 ppm-D 15 min TWA
1,6-hexamethylene diisocyanate	822-06-0	Unknown	5 ppb-A None-O
2(2-Hydroxy-3, 5-diteramylphenyl) benzotriazole	25973-55-1	Unknown	None-A,O
2-Ethylhexyl acetate	103-09-3	Unknown	None-A,O
2,4 Pentanedione	123-54-6	7.0	10 ppm-D None-A,O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

### Section III - Physical Data

Evaporation rate: Less than ether  
Vapor Density: Heavier than air  
Solubility in water: Miscible  
Percent volatile by volume: 7% - 100%  
Percent volatile by weight: 5% - 100%  
Boiling range: 54°C - 213°C/129.2°F - 415.4°F  
Gallon weight: 6.61 - 15.58 lb/gallon

### Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.  
Flammable limits: 0.8% - 11.5%  
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.  
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

**Unusual fire & explosion hazards:** When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

### Section V - Health Hazard Data

#### General Effects:

**Ingestion:** Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**

**Inhalation:** May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

**Skin or eye contact:** May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

#### Specific Effects:

**Acetic Acid Ester** Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Over exposure may cause eye, nose and throat irritation. Repeated or prolonged liquid contact may cause skin irritation and dermatitis. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. **Acrylic Polymer-K & L** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Aliphatic Polymeric Isocyanate** Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

**Aromatic Hydrocarbon** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Bis(1,2,2,6,6-Pentamethyl-4-Piperdiny) Sebacate** Repeated exposure may cause allergic skin rash, itching, swelling. **Butyl Acetate** May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Carbon Black** Is an IARC, NTP or OSHA carcinogen. **Dibutyl Tin Dilaurate** Causes eye corrosion and permanent injury. Contact may cause skin burns. Can be absorbed through the skin in harmful amounts. **Ethyl Acetate** Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. **Ethylbenzene** Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. **Ethylene Glycol Monobutyl Ether Acetate** Can be absorbed through the skin in harmful amounts. May destroy red blood cells. May cause abnormal kidney function. **Heptane** Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver

tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Hydrous Magnesium Silicate** Repeated and prolonged overexposure to talc may lead to typical x-ray changes and chronic lung disease. **Isopropyl Alcohol** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Lead Chromate** Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula:  $\text{limit (in ug/m}^3\text{)} = 400/\text{hours worked in the day}$ . Is an IARC, NTP or OSHA carcinogen. **WARNING:** This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm. **Lead Chromate Molybdate** Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula:  $\text{limit (in ug/m}^3\text{)} = 400/\text{hours worked in the day}$ . Is an IARC, NTP or OSHA carcinogen. **WARNING:** This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm. **Medium Mineral Spirits** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Methyl Amyl Ketone** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Methyl Ethyl Ketone** High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. **N-Butyl Alcohol** Liquid splashes in the eye may result in chemical burns. May cause abnormal blood forming function with anemia. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. **Nickel Azo Complex** Repeated exposure may cause allergic skin rash, itching, swelling. Is an IARC, NTP or OSHA carcinogen. **WARNING:** This chemical is known to the State of California to cause cancer. **Nickel Oxide & Nickel, Antimony, Titanium Yellow Pigment** Is an IARC, NTP or OSHA carcinogen. The components of this pigment are combined chemically into a uniform substance which does not necessarily reflect the properties of the components metals or oxides. **WARNING:** This chemical is known to the State of California to cause cancer. **Primary Amyl Acetate** Recurrent overexposure may result in liver and kidney injury. **Propylene Glycol Monomethyl Ether Acetate** May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. **Quinophthalone Yellow Pigment** Contact may cause skin irritation with discomfort or rash. Ingestion may result in gastric disturbances. **Titanium Dioxide** In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. **Toluene** Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm. **VM&P Naphtha** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a

developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **1,6-Hexamethylene Diisocyanate** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **2-Ethylhexyl Acetate** May cause eye irritation with discomfort, tearing, or blurred vision. Contact may cause skin irritation with discomfort or rash. Over exposure may cause eye, nose and throat irritation. Repeated or prolonged liquid contact may cause skin irritation and dermatitis. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. **2,4-Pentanedione** Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system, and the red blood cell forming system. No effect was seen at 100 ppm. The odor is disagreeable at a few ppm. Ingestion may result in gastric disturbances.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** Water, amines, metal salts

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

20% Surfactant (Tergitol TMN 10) and 80% Water OR

0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE

### INGREDIENTS (See Section II)

**RK-P-19488** acetone, acrylic polymer-b, acrylic polymer-g, amorphous silica, butyl acetate, methyl amyl ketone, toluene (2%), xylene (0-1%)  
GAL WT: 8.73 WT PCT SOLIDS: 56.77 VOL PCT SOLIDS: 44.36  
SOLVENT DENSITY: 6.78 VOC LE: 3.0 VOCAP: 2.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-1955** aliphatic polymeric isocyanate, heptane, methyl amyl ketone, methyl ethyl ketone (9%), toluene (15%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.36 WT PCT SOLIDS: 63.70 VOL PCT SOLIDS: 55.19  
SOLVENT DENSITY: 6.77 VOC LE: 3.0 VOCAP: 3.0 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**359S** acrylic polymer-l, aromatic hydrocarbon, butyl acetate,  
GAL WT: 7.67 WT PCT SOLIDS: 25.00 VOL PCT SOLIDS: 21.00  
SOLVENT DENSITY: 7.28 VOC LE: 5.8 VOCAP: 5.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**389S** dibutyl tin dilaurate (1%), 2,4-pentanedione,  
GAL WT: 8.13 WT PCT SOLIDS: 1.00 VOL PCT SOLIDS: 0.94  
SOLVENT DENSITY: 8.13 VOC LE: 8.0 VOCAP: 8.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**501H** acrylic polymer-a, acrylic polymer-b, butyl acetate, carbon black, methyl amyl ketone, xylene (0-1%)  
GAL WT: 8.22 WT PCT SOLIDS: 52.25 VOL PCT SOLIDS: 45.01  
SOLVENT DENSITY: 7.14 VOC LE: 3.9 VOCAP: 3.9 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**502H** acrylic polymer-i, butyl acetate, iron oxide, medium mineral spirits, propylene glycol monomethyl ether acetate  
GAL WT: 14.19 WT PCT SOLIDS: 71.79 VOL PCT SOLIDS: 46.25  
SOLVENT DENSITY: 7.45 VOC LE: 4.0 VOCAP: 4.0 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**503H** acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (56%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (1-2%)  
GAL WT: 15.58 WT PCT SOLIDS: 75.83 VOL PCT SOLIDS: 50.57  
SOLVENT DENSITY: 7.62 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**504H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-2%), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, xylene (5-6%)  
GAL WT: 8.54 WT PCT SOLIDS: 49.94 VOL PCT SOLIDS: 43.38  
SOLVENT DENSITY: 7.55 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**505H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, carbon black, ethylbenzene (0-2%), methyl amyl ketone, toluene (2%), xylene (5-6%)  
GAL WT: 8.24 WT PCT SOLIDS: 48.82 VOL PCT SOLIDS: 41.56  
SOLVENT DENSITY: 7.22 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**506H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-1%), methyl amyl ketone, phthalocyanine green pigment, toluene (1%), xylene (4-5%)  
GAL WT: 8.22 WT PCT SOLIDS: 44.38 VOL PCT SOLIDS: 33.83  
SOLVENT DENSITY: 6.91 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**507H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-1%), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, toluene (1%), xylene (2-3%)  
GAL WT: 8.58 WT PCT SOLIDS: 48.61 VOL PCT SOLIDS: 41.52  
SOLVENT DENSITY: 7.54 VOC LE: 4.4 VOCAP: 4.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**509H** acrylic polymer-a, acrylic polymer-b, butyl acetate, diketopyrrolopyrrol red pigment, methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (0-1%)  
GAL WT: 9.12 WT PCT SOLIDS: 53.23 VOL PCT SOLIDS: 44.66  
SOLVENT DENSITY: 7.71 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3

R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**510H** acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (58%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (1%)  
GAL WT: 15.82 WT PCT SOLIDS: 76.29 VOL PCT SOLIDS: 50.99  
SOLVENT DENSITY: 7.65 VOC LE: 3.7 VOCAP: 3.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**511H** acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (56%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (0-1%)  
GAL WT: 15.50 WT PCT SOLIDS: 74.46 VOL PCT SOLIDS: 47.97  
SOLVENT DENSITY: 7.61 VOC LE: 4.0 VOCAP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**512H** acrylic polymer-a, acrylic polymer-b, butyl acetate, ethylbenzene (0-1%), lead chromate molybdate (54%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (2%)  
GAL WT: 15.00 WT PCT SOLIDS: 74.95 VOL PCT SOLIDS: 50.53  
SOLVENT DENSITY: 7.60 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**513H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-1%), methyl amyl ketone, propylene glycol monomethyl ether acetate, quinacridone pigment, toluene (2%), xylene (1-2%)  
GAL WT: 8.70 WT PCT SOLIDS: 42.59 VOL PCT SOLIDS: 35.33  
SOLVENT DENSITY: 7.72 VOC LE: 5.0 VOCAP: 5.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**514H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-k, butyl acetate, methyl amyl ketone, primary amyl acetate, quinacridone pigment, xylene (0-1%)  
GAL WT: 8.45 WT PCT SOLIDS: 47.12 VOL PCT SOLIDS: 38.10  
SOLVENT DENSITY: 7.22 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**515H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, iron oxide, methyl amyl ketone, propylene glycol monomethyl ether acetate, toluene (2%), xylene (0-1%)  
GAL WT: 12.45 WT PCT SOLIDS: 66.39 VOL PCT SOLIDS: 45.20  
SOLVENT DENSITY: 7.64 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**516H** acrylic polymer-a, acrylic polymer-b, butyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, xylene (0-1%)  
GAL WT: 14.85 WT PCT SOLIDS: 77.54 VOL PCT SOLIDS: 55.55  
SOLVENT DENSITY: 7.50 VOC LE: 3.3 VOCAP: 3.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**517H** acrylic polymer-a, acrylic polymer-b, butyl acetate, ethylbenzene (0-1%), ferric hexacyanoferrate (19%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (4-5%)  
GAL WT: 8.93 WT PCT SOLIDS: 51.78 VOL PCT SOLIDS: 42.74  
SOLVENT DENSITY: 7.52 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**518H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-f, butyl acetate, dioxazine carbazole pigment, ethylbenzene (0-2%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (7-9%)  
GAL WT: 8.40 WT PCT SOLIDS: 52.90 VOL PCT SOLIDS: 46.95  
SOLVENT DENSITY: 7.46 VOC LE: 4.0 VOCAP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**519H** acrylic polymer-a, acrylic polymer-b, anthraquinone pigment, butyl acetate, ethylbenzene (1-3%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (8-10%)  
GAL WT: 8.27 WT PCT SOLIDS: 48.57 VOL PCT SOLIDS: 42.10  
SOLVENT DENSITY: 7.35 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**522H** acrylic polymer-h, aluminum (25%), aromatic hydrocarbon, butyl acetate, ethylbenzene (0-1%), medium mineral spirits, n-butyl alcohol (2%), propylene glycol monomethyl ether acetate, stoddard solvent, xylene (4-5%)  
GAL WT: 9.30 WT PCT SOLIDS: 51.04 VOL PCT SOLIDS: 38.83  
SOLVENT DENSITY: 7.44 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**524H** acrylic polymer-h, butyl acetate, isopropyl alcohol, medium mineral spirits, n-butyl alcohol (8%), nickel azo complex (8%), propylene glycol monomethyl ether acetate, toluene (2-3%), vm&p naphtha  
GAL WT: 8.25 WT PCT SOLIDS: 51.68 VOL PCT SOLIDS: 44.42  
SOLVENT DENSITY: 7.17 VOC LE: 4.0 VOCAP: 4.0 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**525H** acrylic polymer-a, acrylic polymer-b, butyl acetate, ethylbenzene (0-1%), iron oxide, methyl amyl ketone, primary amyl acetate, xylene (3-4%)  
GAL WT: 9.54 WT PCT SOLIDS: 52.70 VOL PCT SOLIDS: 37.38  
SOLVENT DENSITY: 7.21 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**526H** acrylic polymer-h, butyl acetate, dioxazine carbazole pigment, medium mineral spirits, n-butyl alcohol (4%), propylene glycol monomethyl ether acetate

GAL WT: 8.31 WT PCT SOLIDS: 50.04 VOL PCT SOLIDS: 44.08  
 SOLVENT DENSITY: 7.42 VOC LE: 4.2 VOCAP: 4.2 H: 1 F: 3 R:  
 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**527H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c,  
 barium sulfate, butyl acetate, c.i. pigment red 179, methyl amyl  
 ketone, propylene glycol monomethyl ether acetate, toluene (3%),  
 xylene (0-1%)  
 GAL WT: 8.81 WT PCT SOLIDS: 44.05 VOL PCT SOLIDS: 36.10  
 SOLVENT DENSITY: 7.71 VOC LE: 4.9 VOCAP: 4.9 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**528H** acrylic polymer-a, acrylic polymer-k, butyl acetate, methyl  
 amyl ketone, monoazo pigment, propylene glycol monomethyl ether  
 acetate  
 GAL WT: 9.07 WT PCT SOLIDS: 48.94 VOL PCT SOLIDS: 40.65  
 SOLVENT DENSITY: 7.80 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**529H** acrylic polymer-a, acrylic polymer-b, butyl acetate,  
 isoindolinone pigment, methyl amyl ketone, propylene glycol  
 monomethyl ether acetate, xylene (1-2%)  
 GAL WT: 9.43 WT PCT SOLIDS: 51.47 VOL PCT SOLIDS: 40.48  
 SOLVENT DENSITY: 7.69 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**538H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl  
 acetate, methyl amyl ketone, nickel oxide (3%), nickel, antimony,  
 titanium (54%), propylene glycol monomethyl ether acetate, toluene  
 (1%), xylene (0-1%)  
 GAL WT: 14.80 WT PCT SOLIDS: 72.16 VOL PCT SOLIDS: 46.28  
 SOLVENT DENSITY: 7.67 VOC LE: 4.1 VOCAP: 4.1 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**542H** acrylic polymer-a, acrylic polymer-b, ethylbenzene (0-1%),  
 methyl amyl ketone, primary amyl acetate, quinacridone pigment,  
 xylene (2%)  
 GAL WT: 8.29 WT PCT SOLIDS: 48.81 VOL PCT SOLIDS: 40.89  
 SOLVENT DENSITY: 7.18 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**545H** acrylic polymer-a, acrylic polymer-b, butyl acetate,  
 ethylbenzene (0-2%), iron oxide, methyl amyl ketone, primary amyl  
 acetate, xylene (5-6%)  
 GAL WT: 9.24 WT PCT SOLIDS: 54.31 VOL PCT SOLIDS: 41.41  
 SOLVENT DENSITY: 7.21 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**551H** acrylic polymer-a, acrylic polymer-b, butyl acetate, methyl  
 amyl ketone, propylene glycol monomethyl ether acetate,  
 quinophthalone yellow pigment, xylene (1-2%)  
 GAL WT: 9.42 WT PCT SOLIDS: 52.75 VOL PCT SOLIDS: 42.06  
 SOLVENT DENSITY: 7.68 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**569H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-k, butyl  
 acetate, methyl amyl ketone, monoazo pigment, propylene glycol  
 monomethyl ether acetate, xylene (1-2%)  
 GAL WT: 9.30 WT PCT SOLIDS: 56.44 VOL PCT SOLIDS: 47.26  
 SOLVENT DENSITY: 7.68 VOC LE: 4.1 VOCAP: 4.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**573H** acrylic polymer-e, bis(1,2,2,6,6-pentamethyl-4-piperdiny)  
 sebacate, ethyl acetate, ethylbenzene (0-1%), ethylene glycol  
 monobutyl ether acetate (2%), methyl amyl ketone, polyester resin,  
 xylene (1-2%)  
 GAL WT: 8.92 WT PCT SOLIDS: 76.22 VOL PCT SOLIDS: 70.35  
 SOLVENT DENSITY: 7.15 VOC LE: 2.1 VOCAP: 2.1 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**574H** acrylic polymer-e, acrylic polymer-j, bis(1,2,2,6,6-  
 pentamethyl-4-piperdiny) sebacate, ethyl acetate, ethylbenzene (0-  
 1%), ethylene glycol monobutyl ether acetate (2%), heptane,  
 medium mineral spirits, methyl amyl ketone, n-butyl alcohol (3%),  
 polyester resin, xylene (1-2%), 2(2'-hydroxy-3,5'-  
 diteramylphenyl)benzotriazole  
 GAL WT: 8.57 WT PCT SOLIDS: 68.92 VOL PCT SOLIDS: 61.21  
 SOLVENT DENSITY: 6.87 VOC LE: 2.7 VOCAP: 2.7 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**577H** acrylic polymer-b, acrylic polymer-e, butyl acetate, ethyl  
 acetate, ethylbenzene (0-1%), ethylene glycol monobutyl ether  
 acetate (12%), methyl amyl ketone, methyl ethyl ketone (3%),  
 organoclay, polyester resin, xylene (4-5%)  
 GAL WT: 8.02 WT PCT SOLIDS: 32.78 VOL PCT SOLIDS: 26.95  
 SOLVENT DENSITY: 7.38 VOC LE: 5.4 VOCAP: 5.4 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**590H** acrylic polymer-h, aluminum (23%), aromatic hydrocarbon,  
 butyl acetate, ethylbenzene (0-1%), medium mineral spirits, n-butyl  
 alcohol (2%), propylene glycol monomethyl ether acetate, xylene  
 (4-5%)  
 GAL WT: 9.20 WT PCT SOLIDS: 49.24 VOL PCT SOLIDS: 35.14  
 SOLVENT DENSITY: 7.20 VOC LE: 4.7 VOCAP: 4.7 H: 2 F: 3  
 R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**673H** acrylic polymer-e, bis(1,2,2,6,6-pentamethyl-4-piperdiny)  
 sebacate, ethyl acetate, ethylbenzene (0-1%), methyl amyl ketone,  
 polyester resin, xylene (1-2%), 2-ethylhexyl acetate

GAL WT: 8.89 WT PCT SOLIDS: 75.23 VOL PCT SOLIDS: 69.15  
 SOLVENT DENSITY: 7.14 VOC LE: 2.2 VOCAP: 2.2 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**674H** acrylic polymer-e, acrylic polymer-j, bis(1,2,2,6,6-  
 pentamethyl-4-piperdiny) sebacate, ethyl acetate, ethylbenzene (0-  
 1%), heptane, medium mineral spirits, methyl amyl ketone, n-butyl  
 alcohol (3%), polyester resin, xylene (1-2%), 2(2'-hydroxy-3,5'-  
 diteramylphenyl)benzotriazole, 2-ethylhexyl acetate  
 GAL WT: 8.55 WT PCT SOLIDS: 68.92 VOL PCT SOLIDS: 61.10  
 SOLVENT DENSITY: 6.83 VOC LE: 2.7 VOCAP: 2.7 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**677H** acetone, acrylic polymer-b, acrylic polymer-e, butyl acetate,  
 ethyl acetate, ethylbenzene (0-1%), methyl amyl ketone,  
 organoclay, polyester resin, xylene (4-5%), 2-ethylhexyl acetate  
 GAL WT: 7.94 WT PCT SOLIDS: 32.78 VOL PCT SOLIDS: 26.69  
 SOLVENT DENSITY: 7.28 VOC LE: 5.3 VOCAP: 5.1 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**8685S** ethyl acetate, ethylene glycol monobutyl ether acetate  
 (40%), methyl ethyl ketone (10%)  
 GAL WT: 7.51 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 7.51 VOC LE: 7.5 VOCAP: 7.5 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**8695S** ethylene glycol monobutyl ether acetate (74%), methyl  
 amyl ketone,  
 GAL WT: 7.51 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 7.51 VOC LE: 7.5 VOCAP: 7.5 H: 2 F: 2  
 R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: IB  
**8909S** aliphatic polymeric isocyanate, methyl ethyl ketone (5%),  
 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 9.44 WT PCT SOLIDS: 95.00 VOL PCT SOLIDS: 92.92  
 SOLVENT DENSITY: 6.67 VOC LE: 0.5  
 VOCAP: 0.5 H: 3 F: 3 R: 1 FLASH PT: BETWEEN 20 - 73 F (CC)  
 OSHA STORAGE: IB  
**8920S** bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, ethyl  
 acetate, polyester resin, polyol, xylene (0-1%)  
 GAL WT: 8.55 WT PCT SOLIDS: 93.66 VOL PCT SOLIDS: 92.68  
 SOLVENT DENSITY: 7.41 VOC LE: 0.5  
 VOCAP: 0.5 H: 1 F: 3 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC)  
 OSHA STORAGE: IC  
**8928S** acrylic polymer-d, barium sulfate, calcium carbonate, ethyl  
 acetate, ethylene glycol monobutyl ether acetate (10%), hydrous  
 magnesium silicate, kaolin, methyl ethyl ketone (3%), polyester  
 resin, xylene (1-2%)  
 GAL WT: 13.85 WT PCT SOLIDS: 71.89 VOL PCT SOLIDS: 47.77  
 SOLVENT DENSITY: 7.45 VOC LE: 3.9 VOCAP: 3.9 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**8930S** acetic acid ester, heptane, methyl ethyl ketone (40%),  
 GAL WT: 6.61 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.61 VOC LE: 6.6 VOCAP: 6.6 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**8989S** dibutyl tin dilaurate (5%), 2,4-pentanedione,  
 GAL WT: 8.15 WT PCT SOLIDS: 4.99 VOL PCT SOLIDS: 4.67  
 SOLVENT DENSITY: 8.12 VOC LE: 7.7 VOCAP: 7.7 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

## Product Manager

Prepared by D. G. Detweiler



# CHROMA ONE® & CHROMA ONE® HIGH SOLIDS BINDERS, ACTIVATORS & REDUCERS

## Section I - Manufacturer

**Manufacturer:**  
DuPont Co.  
Automotive  
Wilmington, Delaware 19898

**Telephone:**  
Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Chroma One & Chroma One High Solids Binders, Activators, & Reducers  
**OSHA Hazard Class:** Flammable liquid  
**DOT Shipping Name:** See DOT addendum.  
**Hazardous Materials Information:** See Section X.

## Section II - Hazardous Ingredients (See Section X)

Ingredients	CAS No.	Vapor Pressure (20 C mm Hg)	Exposure Limits
Acetone	67-64-1	184.0	500 ppm-A 8hr TWA 1000 ppm-O 8hr TWA 500 ppm-D 8&12 hr 750 ppm-A 15 min (STEL)
Acrylic Polymer A	Not Available	None	None-A,O
Acrylic Polymer B	96591-17-2	None	None-A,O
Acrylic Polymer C	69215-54-9	None	None-A,O
Acrylic Polymer D	Not Available	None	None-A,O
Acrylic Polymer E	Not Available	None	None-A,O
Acrylic Polymer F	Not Available	None	None-A,O
Acrylic Polymer G	Not Available	None	None-A,O
Aliphatic polyisocyanate resin	28182-81-2	None	0.5 mg/m <sup>3</sup> -S 1 mg/m <sup>3</sup> -S None-A,O
Aliphatic polymeric isocyanate	3779-63-3	None	0.5 mg/m <sup>3</sup> -S 8 hr TWA 1 mg/m <sup>3</sup> -S 15 min(STEL) None-A,O
Aromatic hydrocarbon	64742-95-6	10.0 @ 25°C	None-A,O
Bis(1,2,2,6,6- pentamethyl-4- piperdiny) sebacate	41556-26-7	6.0	None-A,O
Butyl acetate	123-86-4	8.0	150 ppm-A,O 200 ppm-A 15 min (STEL)
Cumene	98-82-8	3.7	50 ppm-A,O Skin
Diethylene glycol monobutyl ether	112-34-5	0.1	5 ppm-D None-A,O
Diisobutyl ketone	108-83-8	1.7	25 ppm-A 50 ppm-O
Ethyl acetate	141-78-6	76.0	400 ppm-A,O
Ethylbenzene	100-41-4	7.0	100 ppm-A,O 125 ppm-A 15 min(STEL) 25 ppm-D 8&12 hr
Ethylene glycol monobutyl ether acetate	112-07-2	0.3	20 ppm-D Skin None-A,O

Heptane	142-82-5	40.0	400 ppm-A 500 ppm-O 500 ppm-A 15 min(STEL)
Hexyl acetate isomers	88230-35-7	0.7	50 ppm-A Hexyl Acet None-O
Medium mineral spirits	64742-88-7	Unknown	100 ppm-D None-A,O
Methyl amyl ketone	110-43-0	2.2	50 ppm-A 100 ppm-O
Methyl ethyl ketone	78-93-3	71.0	200 ppm-A,O 300 ppm-A 15 min(STEL) 200 ppm-D 8&12 hr TWA 300 ppm-D 15 min TWA
Polyester resin-A	71010-58-7	None	None-A,O
Polyester resin B	65086-73-9	None	None-A,O
Polyester resin C	Not Available	None	None-A,O
Propylene glycol monomethyl ether acetate	108-65-6	3.7	10ppm-D None-A,O
Substituted Benzotriazole	127519-17-9	None	None-A,O
Xylene	1330-20-7	7.0 @ 25°C	100 ppm-A,O 150 ppm-A 15 min(STEL) 100 ppm-D 8&12 hr 150 ppm-D 15 min TWA
1,2,4-Trimethyl benzene	95-63-6	7.0 @ 44.4°C	25 ppm-A,O
1,6-Hexamethylene diisocyanate	822-06-0	Unknown	5 ppb-A None-O
2(2-Hydroxy-3, 5-diteramylphenyl) benzotriazole	25973-55-1	Unknown	None-A,O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

## Section III - Physical Data

**Evaporation rate:** Less than ether.  
**Vapor Density:** Heavier than air.  
**Solubility in water:** Miscible.  
**Percent volatile by volume:** 31.8%-99.7%  
**Percent volatile by weight:** 26.8%-99.7%  
**Boiling range:** 54°C- 245°C/ 129°F- 473°F  
**Gallon weight:** 7.23 - 9.00 lb/gallon

## Section IV - Fire and Explosion Data

**Flash point (closed cup):** See Section X for exact values.  
**Flammable limits:** 0.8%- 13.1%  
**Extinguishing media:** Universal aqueous film-forming foam, carbon dioxide, dry chemical.  
**Special fire fighting procedures:** Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.  
**Unusual fire & explosion hazards:** When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

## Section V - Health Hazard Data

### General Effects:

**Ingestion:** Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**

**Inhalation:** May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

**Skin or eye contact:** May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

### Specific Effects:

**Acrylic Polymer-E** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Aliphatic Polyisocyanate Resin** Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Aliphatic Polymeric Isocyanate** Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Aromatic Hydrocarbon & Medium Mineral Spirits** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Bis(1,2,2,6,6-Pentamethyl-4-Piperdiny) Sebacate** Repeated exposure may cause allergic skin rash, itching, swelling. **Butyl Acetate** May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Diethylene Glycol Monobutyl Ether** Contact may cause skin irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive. **Diisobutyl Ketone** Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Repeated exposure may cause allergic skin rash, itching, swelling. **Ethyl Acetate** Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. **Ethylbenzene** Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. **Ethylene Glycol Monobutyl Ether Acetate** Can be absorbed through the skin in harmful amounts. May destroy red

blood cells. May cause abnormal kidney function. **Heptane** Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Methyl Amyl Ketone** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Methyl Ethyl Ketone** High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. **Polyester Resin-C** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Propylene Glycol Monomethyl Ether Acetate** May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **1,6-Hexamethylene Diisocyanate** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** Water, amines, metal salts

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

20% Surfactant (Tergitol TMN 10) and 80% Water OR

0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's

directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

### PRODUCT CODE                      INGREDIENTS(See Section II)

**7005S** aliphatic polyisocyanate resin, aromatic hydrocarbon, butyl acetate, diisobutyl ketone, ethyl acetate, 1,2,4-trimethyl benzene (0-2%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.70 WT PCT SOLIDS: 65.28 VOL PCT SOLIDS: 58.37  
SOLVENT DENSITY: 7.26 VOC LE: 3.0 VOC AP: 3.0 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7006S** aliphatic polymeric isocyanate, hexyl acetate isomers, propylene glycol monomethyl ether acetate, 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 9.00 WT PCT SOLIDS: 73.13 VOL PCT SOLIDS: 68.19  
SOLVENT DENSITY: 7.60 VOC LE: 2.4 VOC AP: 2.4 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: IB

**7012S** diisobutyl ketone, methyl amyl ketone,  
GAL WT: 6.77 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.77 VOC LE: 6.8 VOC AP: 6.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7020G** acrylic polymer-a, acrylic polymer-c, acrylic polymer-g, aromatic hydrocarbon, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, cumene (0-1%), ethyl acetate, ethylbenzene (1-3%), ethylene glycol monobutyl ether acetate (1%), methyl amyl ketone, methyl ethyl ketone (1%), polyester resin-a, polyester resin-b, propylene glycol monomethyl ether acetate, xylene (9-12%), 1,2,4-trimethyl benzene (0-4%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
GAL WT: 7.99 WT PCT SOLIDS: 45.31 VOL PCT SOLIDS: 39.37  
SOLVENT DENSITY: 7.21 VOC LE: 4.4 VOC AP: 4.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7022E** acrylic polymer-e, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, diethylene glycol monobutyl ether (2%), methyl amyl ketone, methyl ethyl ketone (2%), polyester resin-c, substituted benzotriazole  
GAL WT: 8.24 WT PCT SOLIDS: 67.75 VOL PCT SOLIDS: 61.30  
SOLVENT DENSITY: 6.87 VOC LE: 2.7 VOC AP: 2.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7030G** acrylic polymer-c, acrylic polymer-g, aromatic hydrocarbon, butyl acetate, cumene (0-1%), ethylbenzene (1-4%), methyl amyl ketone, methyl ethyl ketone (1%), propylene glycol monomethyl ether acetate, xylene (11-14%), 1,2,4-trimethyl benzene (1-6%)  
GAL WT: 7.95 WT PCT SOLIDS: 41.28 VOL PCT SOLIDS: 35.47  
SOLVENT DENSITY: 7.23 VOC LE: 4.7 VOC AP: 4.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7032E** acrylic polymer-e, butyl acetate, methyl amyl ketone, polyester resin-c,  
GAL WT: 8.28 WT PCT SOLIDS: 67.79 VOL PCT SOLIDS: 61.05  
SOLVENT DENSITY: 6.85 VOC LE: 2.7 VOC AP: 2.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7040G** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, acrylic polymer-f, acrylic polymer-g, aromatic hydrocarbon, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, ethyl acetate, ethylbenzene (1-3%), ethylene glycol monobutyl ether acetate (2%), heptane, medium mineral spirits, methyl amyl

ketone, polyester resin-a, polyester resin-b, propylene glycol monomethyl ether acetate, xylene (9-12%), 1,2,4-trimethyl benzene (0-2%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
GAL WT: 7.97 WT PCT SOLIDS: 45.89 VOL PCT SOLIDS: 39.46  
SOLVENT DENSITY: 7.12 VOC LE: 4.3 VOC AP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7042E** acrylic polymer-d, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, ethyl acetate, methyl amyl ketone, methyl ethyl ketone (10%), propylene glycol monomethyl ether acetate, xylene (0-1%), 2(2'-hydroxy-3,5'-diteramylphenyl) benzotriazole  
GAL WT: 7.96 WT PCT SOLIDS: 50.80 VOL PCT SOLIDS: 43.36  
SOLVENT DENSITY: 6.91 VOC LE: 3.9 VOC AP: 3.9 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7050G** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, acrylic polymer-g, aromatic hydrocarbon, butyl acetate, ethyl acetate, ethylbenzene (1-4%), ethylene glycol monobutyl ether acetate (1%), methyl amyl ketone, polyester resin-a, propylene glycol monomethyl ether acetate, xylene (12-15%), 1,2,4-trimethyl benzene (0-3%)  
GAL WT: 7.92 WT PCT SOLIDS: 40.20 VOL PCT SOLIDS: 34.07  
SOLVENT DENSITY: 7.18 VOC LE: 4.7 VOC AP: 4.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7052E** acrylic polymer-d, butyl acetate, methyl amyl ketone, methyl ethyl ketone (9%), propylene glycol monomethyl ether acetate, xylene (0-1%)  
GAL WT: 7.91 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 38.76  
SOLVENT DENSITY: 6.97 VOC LE: 4.3 VOC AP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7065S** acetone, ethyl acetate, methyl ethyl ketone (2%),  
GAL WT: 7.23 WT PCT SOLIDS: 0.34 VOL PCT SOLIDS: 0.27  
SOLVENT DENSITY: 7.22 VOC LE: 7.4 VOC AP: 5.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7075S** butyl acetate, ethyl acetate, methyl amyl ketone, methyl ethyl ketone (30%),  
GAL WT: 7.10 WT PCT SOLIDS: 0.02 VOL PCT SOLIDS: 0.02  
SOLVENT DENSITY: 7.10 VOC LE: 7.1 VOC AP: 7.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7085S** butyl acetate, ethylene glycol monobutyl ether acetate (10%), methyl amyl ketone, methyl ethyl ketone (20%)  
GAL WT: 7.19 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.19 VOC LE: 7.2 VOC AP: 7.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7095S** butyl acetate, diisobutyl ketone, ethylene glycol monobutyl ether acetate (22%), methyl amyl ketone, methyl ethyl ketone (7%)  
GAL WT: 7.14 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.14 VOC LE: 7.1 VOC AP: 7.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7099S** diisobutyl ketone, ethylene glycol monobutyl ether acetate (35%), propylene glycol monomethyl ether acetate  
GAL WT: 7.11 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.11 VOC LE: 7.1 VOC AP: 7.1 H: 2 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: IB

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

## Product Manager - Refinish Sales

Prepared by D. G. Detweiler



# ChromaClear® Clearcoat, Activator, & Reducers

## Section I - Manufacturer

**Manufacturer:**  
DuPont Co.  
Automotive  
Wilmington, Delaware 19898

**Telephone:**  
Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

**Product:** Isocyanate activators, hardeners & additives(2100S, 2105S, 2165S, 2175S, 2185S).

**OSHA Hazard Class:** Flammable liquid,  
except 2185S - Combustible liquid

**Hazardous Materials Information:** See Section X.

## Section II - Hazardous Ingredients (See Section X)

Ingredients CAS No.	Vapor Pressure (20°C. mm Hg)	Exposure Limits *
Acetone 67-64-1	184.0	500 ppm-A 8 hr TWA 1000 ppm-O 8 hr TWA 750 ppm-A 15 min (STEL) 500 ppm-D 8 & 12 hr
Acrylic polymer Not available	None	None-A,O
Benzene, 1-chloro-4 (trifluoromethyl) 98-56-6	5.3	25 ppm-S None-A,O
Bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate 41556-26-7	6.0	None-A,O
Butyl acetate 123-86-4	8.0	150 ppm-A,O 200 ppm-A 15 min (STEL)
Ethylbenzene 100-41-4	7.0	100 ppm-A,O 125 ppm-A 15 min(STEL) 25 ppm-D 8 & 12 hr
Polyester resin Not available	None	None-A,O
Methyl Amyl Ketone 110-43-0	2.2	50 ppm-A 100 ppm-O
Polyester resin 65086-73-9	None	None-A, O
Substituted benzotriazole 127519-19-9	None	None-A,O
Trimer of hexamethylene diisocyanate 3779-63-3	None	1.0 mg/m³-S 15 min(STEL) 0.5 mg/m³-S None-A,O
Xylene 1330-20-7	7.0@ 25°C	100 ppm-A,O 150 ppm-A 15 min(STEL) 100 ppm-D 8&12 hr 150 ppm-D 15 min TWA
1,6-Hexamethylene diisocyanate 822-06-0	Unknown	5 ppb-A None-O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

## Section III - Physical Data

**Evaporation rate:** Less than ether  
**Vapor Density:** Heavier than air  
**Solubility in water:** Miscible  
**Percent volatile by volume:** 37.7%-50.5%  
**Percent volatile by weight:** 36.7%-49.9%  
**Boiling range:** 54°C- 213°C/ 129.2° F- 415.4°F  
**Gallon weight:** 9.22-9.36 lbs./gallon

## Section IV - Fire and Explosion Data

**Flash point** (closed cup): See Section X for exact values.  
**Flammable limits:** 0.8%- 11.5%  
**Extinguishing media:** Universal aqueous film-forming foam,  
carbon dioxide, dry chemical.  
**Special fire fighting procedures:** Full protective equipment,  
including self-contained breathing apparatus, is recommended.  
Water from fog nozzles may be used to cool closed containers to  
prevent pressure build up.  
**Unusual fire & explosion hazards:** When heated above the flash  
point, emits flammable vapors which, when mixed with air, can burn  
or be explosive. Fine mists or sprays may be flammable at tempera-  
tures below the flash point.

## Section V - Health Hazard Data

**General Effects:**  
**Ingestion:** Gastrointestinal distress. In the unlikely event of  
ingestion, call a physician immediately and have the names of  
ingredients available. **DO NOT INDUCE VOMITING.**  
**Inhalation:** May cause nose and throat irritation. Repeated and  
prolonged overexposure to solvents may lead to permanent brain  
and nervous system damage. Eye watering, headaches, nausea,  
dizziness and loss of coordination are signs that solvent levels are  
too high. Exposure to isocyanates may cause respiratory sensitiza-  
tion. This effect may be permanent. This effect may be delayed for  
several hours after exposure. Repeated overexposure to isocyan-  
ates may cause a decrease in lung function which may be perma-  
nent. Individuals with breathing problems or prior reaction to  
isocyanates must not be exposed to vapors or spray mist of this  
product. If affected by inhalation of vapor or spray mist, remove to  
fresh air. If breathing difficulty persists, or occurs later, consult a  
physician.  
**Skin or eye contact:** May cause irritation or burning of the eyes.  
Repeated or prolonged liquid contact may cause skin irritation with  
discomfort and dermatitis. In case of eye contact, immediately flush  
with plenty of water for at least 15 minutes; call a physician. In case  
of skin contact, wash with soap and water. If irritation occurs,  
contact a physician.

**Specific Effects:**  
**Acrylic polymer** Contact may cause skin irritation with discomfort  
or rash. May cause eye irritation with discomfort, tearing, or blurred  
vision. **Bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate**  
Repeated exposure may cause allergic skin rash, itching, swelling.  
**Butyl acetate** May cause abnormal liver function. Tests for  
embryotoxic activity in animals has been inconclusive. Has been  
toxic to the fetus in laboratory animals at doses that are toxic to the  
mother. **Ethylbenzene** Recurrent overexposure may result in liver  
and kidney injury. Studies in laboratory animals have shown  
reproductive, embryotoxic and developmental effects. Has shown  
mutagenic activity in laboratory cell culture tests. Tests in some  
laboratory animals demonstrate carcinogenic activity. Individuals  
with preexisting diseases of the central nervous system, lungs,  
liver, or kidneys may have increased susceptibility to the toxicity of  
excessive exposures. **Methyl amyl ketone** Ingestion studies on  
laboratory animals showed that very high oral doses caused  
increased liver and kidney weights. **Trimer of hexamethylene  
diisocyanate** Repeated exposure may cause allergic skin rash,  
itching, swelling. May cause eye irritation with discomfort, tearing.

or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **1,6-hexamethylene diisocyanate** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** Water, amines, metal salts,

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:**

Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

20% Surfactant (Tergitol TMN 10) and 80% Water OR

0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE                      INGREDIENTS (See Section II)

**2100S** acetone, acrylic polymer, benzene, 1-chloro-4 (trifluoromethyl), bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, polyester resin, methyl amyl ketone, polyester resin, substituted benzotriazole  
GAL WT: 9.22 WT PCT SOLIDS: 50.13 VOL PCT SOLIDS: 49.45  
SOLVENT DENSITY: 9.10 VOC LE: 2.2 VOC AP: 1.6 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**2105S** benzene, 1-chloro-4 (trifluoromethyl), ethylbenzene (1-3%), methyl amyl ketone, trimer of hexamethylene diisocyanate, xylene (10-13%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 9.36 WT PCT SOLIDS: 63.63 VOL PCT SOLIDS: 62.26  
SOLVENT DENSITY: 9.02 VOC LE: 1.7 VOC AP: 1.4 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**2165S** acetone, benzene, 1-chloro-4 (trifluoromethyl),  
GAL WT: 7.24 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.24 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 3  
R: 1 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**2175S** acetone, benzene, 1-chloro-4 (trifluoromethyl),  
GAL WT: 8.71 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 8.71 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 3 R:  
1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**2185S** benzene, 1-chloro-4 (trifluoromethyl),  
GAL WT: 11.15 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 11.15 VOC LE: 0.0 VOC AP: 0.0 H: 1 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

## Product Manager - Refinish Sales

*Prepared by D. G. Detweiler*



## CHROMABASE® CLEAR, ACTIVATOR, REDUCERS

## Section I - Manufacturer

## Manufacturer:

DuPont Co.  
Automotive  
Wilmington, Delaware 19898

## Telephone:

Product information (800) 441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Chromabase® Clear, Activator, Reducers (7500S, 7565S, 7575S, 7585S, 7595S, 7600S, 7655S, 7675S, 7695S, 7800S, 7875S, 7895S).

OSHA Hazard Class: Flammable liquid

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section X.

## Section II - Hazardous Ingredients

(See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C. mm Hg)	Exposure Limits
Acetic acid ester of C9-C11 oxo-alcohol	108419-34-7	0.1 @ 21°C	50 ppm-S None-A, O
Acetone	67-64-1	184.0	500 ppm-A 8 hr TWA 1000 ppm-O 8 hr TWA 750 ppm-A 15 min(STEL) 500 ppm-D 8 & 12 hr
Acrylic polymer-A	69215-54-9	None	None-A, O
Acrylic polymer-B	Not Available	None	None-A, O
Acrylic polymer-C	Not Available	None	None-A, O
Aliphatic polyisocyanate resin	28182-81-2	None	0.5 mg/m³-S 1 mg/m³-S 15 min(STEL) None-A, O
Aliphatic polymeric isocyanate	3779-63-3	Unknown	0.5 mg/m³-S 8 hr TWA 1 mg/m³-S 15 min(STEL) None-A, O
Aromatic hydrocarbon	64742-95-6	10.0 @ 25°C	None-A, O
Benzene, 1-chloro-4 (trifluoromethyl)	98-56-6	5.3	25 ppm-S Ceiling None-A, O
Butyl acetate	123-86-4	8.0	150 ppm-A, O 200 ppm-A 15 min(STEL)
Cumene	98-82-8	3.7	50 ppm-A, O Skin
Ethyl acetate	141-78-6	76.0	400 ppm-A, O
Ethyl 3-ethoxy propionate	763-69-9	Unknown	None-A, O
Ethylbenzene	100-41-4	7.0	100 ppm-A, O 125 ppm-A 15 min(STEL) 25 ppm-D 8 & 12 hr
Ethylene glycol monobutyl ether acetate	112-07-2	0.3	20 ppm-D Skin None-A, O
Hexyl acetate isomers	88230-35-7	0.7	50 ppm-A Hexyl Acet None-O
Methyl ethyl ketone	78-93-3	71.0	200 ppm-A, O 300 ppm-A 15 min(STEL)

Methyl isobutyl ketone

108-10-1

15.0

200 ppm-D 8 & 12 hr TWA  
300 ppm-D 15 min TWA

50 ppm-A

100 ppm-O

75 ppm-A 15 min(STEL)

Polyester resin-A

65086-73-9

None

None-A, O

Polyester resin-B

Not Available

None

None-A, O

Propylene glycol monomethyl ether acetate

108-65-6

3.7

None-A, O

10 ppm-D

Toluene

108-88-3

36.7

50 ppm-A Skin

200 ppm-O

300 ppm-O Ceiling

500 ppm-O 10 min MAX

50 ppm-D 8 & 12 hr TWA

100 ppm-A, O

150 ppm-A (STEL)

100 ppm-D 8 & 12 hr

150 ppm-D 15 min TWA

Xylene

1330-20-7

7.0 @ 25°C

1,2,4-Trimethyl Benzene

95-63-6

7.0 @ 44.4°C

25 ppm-A, O

1,6-hexamethylene diisocyanate

822-06-0

Unknown

5 ppb-A

None-O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

## Section III - Physical Data

Evaporation rate: Less than ether

Vapor Density: Heavier than air

Solubility in water: Miscible

Percent volatile by volume: 34.3% - 72.8%

Percent volatile by weight: 28.7% - 67.1%

Boiling range: 76°C - 249°C / 169°F - 480°F

Gallon weight: 7.75 - 9.02 lb/gallon

## Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.

Flammable limits: 0.9% - 13.1%

Extinguishing media: Universal aqueous film-forming foam,  
carbon dioxide, dry chemical.

Special fire fighting procedures: Full protective equipment,  
including self-contained breathing apparatus, is recommended.  
Water from fog nozzles may be used to cool closed containers to  
prevent pressure build up.

Unusual fire & explosion hazards: When heated above the flash  
point, emits flammable vapors which, when mixed with air, can burn  
or be explosive. Fine mists or sprays may be flammable at tempera-  
tures below the flash point.

## Section V - Health Hazard Data

## General Effects:

Ingestion: Gastrointestinal distress. In the unlikely event of  
ingestion, call a physician immediately and have the names of  
ingredients available. **DO NOT INDUCE VOMITING.**

Inhalation: May cause nose and throat irritation. Repeated and  
prolonged overexposure to solvents may lead to permanent brain  
and nervous system damage. Eye watering, headaches, nausea,  
dizziness and loss of coordination are signs that solvent levels are  
too high. Exposure to isocyanates may cause respiratory sensiti-  
zation. This effect may be permanent. This effect may be delayed for  
several hours after exposure. Repeated overexposure to isocyan-  
ates may cause a decrease in lung function which may be perma-  
nent. Individuals with breathing problems or prior reaction to  
isocyanates must not be exposed to vapors or spray mist of this  
product. If affected by inhalation of vapor or spray mist, remove to

fresh air. If breathing difficulty persists, or occurs later, consult a physician.

**Skin or eye contact:** May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

#### Specific Effects:

**Aliphatic Polyisocyanate Resin** Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Aliphatic Polymeric Isocyanate** Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Aromatic Hydrocarbon** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Butyl Acetate** May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Ethyl Acetate** Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. **Ethyl 3-Ethoxy Propionate** Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Ethylbenzene** Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. **Ethylene Glycol Monobutyl Ether Acetate** Can be absorbed through the skin in harmful amounts. May destroy red blood cells. May cause abnormal kidney function. **Methyl Ethyl Ketone** High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. **Methyl Isobutyl Ketone** Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. **Polyester Resin** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Propylene Glycol Monomethyl Ether Acetate** May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. **Toluene** Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures.

Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **1,6-Hexamethylene Diisocyanate** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** Water, amines, metal salts

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:**

Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

20% Surfactant (Tergitol TMN 10) and 80% Water OR

0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

**PRODUCT CODE**

**INGREDIENTS (See Section II)**

**7500S** acrylic polymer-c, butyl acetate, ethyl acetate, ethylbenzene (2-6%), hexyl acetate isomers, methyl isobutyl ketone (3%), polyester resin-b, propylene glycol monomethyl ether acetate, toluene (1%), xylene (18-22%)  
GAL WT: 8.02 WT PCT SOLIDS: 32.94 VOL PCT SOLIDS: 27.13  
SOLVENT DENSITY: 7.38 VOC LE: 5.4 VOC AP: 5.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7565S** aliphatic polymeric isocyanate, ethyl acetate, ethylbenzene (2-7%), toluene (4%), xylene (20-24%)  
GAL WT: 8.38 WT PCT SOLIDS: 47.98 VOL PCT SOLIDS: 41.66  
SOLVENT DENSITY: 7.47 VOC LE: 4.4 VOC AP: 4.4 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7575S** aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylbenzene (2-7%), toluene (4%), xylene (20-24%)  
GAL WT: 8.26 WT PCT SOLIDS: 48.29 VOL PCT SOLIDS: 41.34  
SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7585S** aliphatic polymeric isocyanate, ethylbenzene (2-6%), hexyl acetate isomers, propylene glycol monomethyl ether acetate, xylene (17-20%)  
GAL WT: 8.37 WT PCT SOLIDS: 47.72 VOL PCT SOLIDS: 41.38  
SOLVENT DENSITY: 7.46 VOC LE: 4.4 VOC AP: 4.4 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**7595S** aliphatic polymeric isocyanate, ethyl 3-ethoxy propionate, ethylene glycol monobutyl ether acetate (20%)  
GAL WT: 8.59 WT PCT SOLIDS: 46.43 VOL PCT SOLIDS: 41.35  
SOLVENT DENSITY: 7.85 VOC LE: 4.6 VOC AP: 4.6 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**7600S** acetone, acrylic polymer-a, benzene, 1-chloro-4 (trifluoromethyl), butyl acetate, ethylbenzene (2-5%), methyl ethyl ketone (12%), toluene (1%), xylene (15-19%)  
GAL WT: 7.95 WT PCT SOLIDS: 36.25 VOL PCT SOLIDS: 30.65  
SOLVENT DENSITY: 7.31 VOC LE: 4.0 VOC AP: 2.9 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7601S** acrylic polymer-a, aromatic hydrocarbon-a, butyl acetate, ethylbenzene (1-4%), methyl ethyl ketone (28%), propylene glycol monomethyl ether acetate, toluene (28%), xylene (12-15%), 1,2,4-trimethyl benzene (0-2%)  
GAL WT: 7.17 WT PCT SOLIDS: 3.72 VOL PCT SOLIDS: 2.84  
SOLVENT DENSITY: 7.11 VOC LE: 6.9 VOC AP: 6.9 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7655S** aliphatic polyisocyanate resin, aromatic hydrocarbon-a,

butyl acetate, toluene (27%)  
GAL WT: 8.09 WT PCT SOLIDS: 39.00 VOL PCT SOLIDS: 32.34  
SOLVENT DENSITY: 7.29 VOC LE: 4.9 VOC AP: 4.9 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7675S** aliphatic polyisocyanate resin, aromatic hydrocarbon-a, butyl acetate, propylene glycol monomethyl ether acetate  
GAL WT: 8.32 WT PCT SOLIDS: 37.50 VOL PCT SOLIDS: 31.99  
SOLVENT DENSITY: 7.65 VOC LE: 5.2 VOC AP: 5.2 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**7695S** aliphatic polyisocyanate resin, aromatic hydrocarbon-a, butyl acetate, cumene (0-1%), ethyl 3-ethoxy propionate, 1,2,4-trimethyl benzene (1-7%)  
GAL WT: 8.34 WT PCT SOLIDS: 37.59 VOL PCT SOLIDS: 32.14  
SOLVENT DENSITY: 7.67 VOC LE: 5.2 VOC AP: 5.2 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**7800S** acrylic polymer-b, aromatic hydrocarbon-a, butyl acetate, cumene (0-1%), ethyl acetate, methyl ethyl ketone (10%), polyester resin-a, propylene glycol monomethyl ether acetate, toluene (2%), xylene (0-1%), 1,2,4-trimethyl benzene (1-6%)  
GAL WT: 8.11 WT PCT SOLIDS: 41.25 VOL PCT SOLIDS: 34.69  
SOLVENT DENSITY: 7.30 VOC LE: 4.7 VOC AP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7875S** aliphatic polymeric isocyanate, ethyl acetate, toluene (8%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.89 WT PCT SOLIDS: 71.33 VOL PCT SOLIDS: 65.69  
SOLVENT DENSITY: 7.43 VOC LE: 2.5 VOC AP: 2.5 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7895S** aliphatic polymeric isocyanate, ethyl 3-ethoxy propionate, ethylene glycol monobutyl ether acetate (5%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 9.02 WT PCT SOLIDS: 69.17 VOL PCT SOLIDS: 64.66  
SOLVENT DENSITY: 7.87 VOC LE: 2.8 VOC AP: 2.8 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**7899S** acetic acid ester of c9-11 oxo-alcohol, aliphatic polymeric isocyanate, hexyl acetate isomers, 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.81 WT PCT SOLIDS: 70.92 VOL PCT SOLIDS: 64.74  
SOLVENT DENSITY: 7.27 VOC LE: 2.6 VOC AP: 2.6 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

**Product Manager - Refinish Sales**

Prepared by D. G. Detweiler



# VOC PRODUCTS

## Section I - Manufacturer

### Manufacturer:

DuPont Co.  
Automotive  
Wilmington, Delaware 19898

### Telephone:

Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Low VOC Primers, Thinners, Basemakers, Clears and Activators.

OSHA Hazard Class: Not Regulated; Flammable liquid

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section X.

## Section II - Hazardous Ingredients

(See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C, mm Hg)	Exposure Limits
Acetic acid ester	90438-79-2	Unknown	None-A,O
Acetic acid ester of C9-11 Oxo-alcohol	108419-34-7	0.1 @ 21°C	50ppm-S None-A,O
Acetone	67-64-1	184.0	500 ppm-A 8 hr TWA 1000 ppm-O 8 hr TWA 750 ppm-A 15 min (STEL) 500 ppm-D 8 hr
Acrylic polymer-A	9011-14-7	None	None-A,O
Acrylic polymer-B	25133-97-5	None	None-A,O
Acrylic polymer-C	Not Available	None	None-A,O
Acrylic polymer-D	Not Available	None	None-A,O
Acrylic polymer-E	69215-54-9	None	None-A,O
Acrylic polymer-F	Not Available	None	None-A,O
Acrylic polymer-G	Not Available	None	None-A,O
Acrylic polymer-H	Not Available	None	None-A,O
Acrylic polymer-I	Not Available	None	None-A,O
Acrylic polymer-J	Not Available	None	None-A,O
Acrylic polymer-K	Not Available	None	None-A,O
Acrylic polymer-L	Not Available	None	None-A,O
Acrylic polymer-M	104032-39-5	None	None-A,O
Acrylic polymer-N	Not Available	None	None-A,O
Acrylic polymer-O	25852-37-3	None	None-A,O
Acrylic polymer-P	80010-53-3	None	None-A,O
Acrylic polymer-Q	Not Available	None	None-A,O
Aliphatic hydrocarbon/ aliphatic ester/ surfactant	Not Available	0.2 @ 25°C	None-A,O

Aliphatic polyamine	Not Available	Unknown	None-A,O
Aliphatic polyisocyanate polymer	Not Available	None	None-A,O
Aliphatic polyisocyanate resin	28182-81-2	None	0.5 mg/m <sup>3</sup> -S 1 mg/m <sup>3</sup> -S 15 min (STEL) None-A,O
Aliphatic polymeric isocyanate	3779-63-3	None	0.5 mg/m <sup>3</sup> -S 1 mg/m <sup>3</sup> -S 15 min (STEL) None-A,O
Aliphatic solvent mixture	Not Available	Unknown	None-A,O
Alkyd resin	Not Available	None	None-A,O
Aromatic hydrocarbon A	64742-95-6	10.0 @ 25°C	None-A,O
Aromatic hydrocarbon B	64742-94-5	10.0	None-A,O
Barium sulfate	7727-43-7	None	10 mg/m <sup>3</sup> -A Total Dust 15 mg/m <sup>3</sup> -O Total Dust 5 mg/m <sup>3</sup> -O Dust, 8 hr Resp 10 mg/m <sup>3</sup> -D 8 hr TWA
Benzene,1-chloro-4 (trifluoromethyl)	98-56-6	5.3	25 ppm-S Ceiling None-A,O
Beta-(3-(2H-benzotriazole- 2-yl)-4-hydroxy- 5-tert-butylphenyl) propionate	104810-47-1	None	None-A,O
Bis(1-2,2,6,6- pentamethyl-4- piperdiny) sebacate	41556-26-7	6.0	None-A,O
Bisphenol a/epichlorohydrin polymer	25036-25-3	None	None-A,O
Bisphenol a/epoxy,phenolic resin	68334-76-9	None	None-A,O
Bisphenol-epichlorohydrin type polymer	25068-38-6	None	None-A,O
Blocked diamine	Not Available	0.4	None-A,O
Butyl Acetate	123-86-4	8.0	150.0 ppm-A,O 200 ppm-A 15 min (STEL)
Butyl benzyl phthalate	85-68-7	0.8	5 mg/m <sup>3</sup> -D None-A,O
Calcium Carbonate	471-34-1	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Calcium strontium zinc phosphosilicate	66402-68-4	None	10 mg/m <sup>3</sup> -A 15 mg/m <sup>3</sup> -O 5 mg/m <sup>3</sup> -O Resp
Carbon black	1333-86-4	None	3.5 mg/m <sup>3</sup> -A,O 0.5 mg/m <sup>3</sup> -D
Cellulose acetate butyrate	9004-36-8	None	None-A,O
Cumene	98-82-8	3.7	50 ppm-A,O Skin
Cyclohexane	110-82-7	100.0 @ 60°C	300 ppm-A,O 150 ppm-D 12 hr TWA
Dehydrated castor oil	64147-40-6	Unknown	None-A,O
Diethylene glycol monobutyl ether-A	112-34-5	0.1	5 ppm-D None-A,O
Diethylene glycol monobutyl ether-B	112-34-5	0.1	5 ppm-D None-A,O
Diisobutyl ketone			

108-83-8	1.7	25 ppm-A 50 ppm-O			
Ethyl acetate					100 ppm-D
141-78-6	76.0	400 ppm-A,O			
Ethyl 3-ethoxy propionate					
763-69-9	Unknown	None-A,O			
Ethylbenzene					
100-41-4	7.0	100 ppm-A,O 125 ppm-A 15 min(STEL) 25 ppm-D 8&12 hr			
Ethylene glycol monobutyl ether acetate					
112-07-2	0.3	20 ppm-D Skin None-A,O			
Ethylene glycol monobutylether					
111-76-2	0.6	25 ppm-A Skin 50 ppm-O Skin 10 ppm-D Skin			
Heptane					
142-82-5	40.0	400 ppm-A 500 ppm-O 500 ppm-A 15 min(STEL)			
Hexyl acetate isomers					
88230-35-7	0.7	50 ppm-A Hexyl Acet None-O			
Hindered Amine					
129757-67-1	Unknown	None-A,O			
Hydrous magnesium silicate					
14807-96-6	None	2 mg/m <sup>3</sup> -A Resp None-O .5 mg/m <sup>3</sup> -D Resp 5 mg/m <sup>3</sup> -A 10 mg/m <sup>3</sup> -O			
Iron oxide					
1309-37-1	None				
Isobutyl acetate					
110-19-0	12.5	150 ppm-A,O			
Isopropyl alcohol					
67-63-0	33.0	400 ppm-A,O 500 ppm-A 15 min(STEL) 400 ppm-D 8&12 hr			
Ketamine					
Not Available	24.7 @ 50°C	None-A,O			
Medium mineral spirits					
64742-88-7	10.0	100 ppm-D None-A,O			
Methyl alcohol					
67-56-1	100.0	200 ppm-A Skin 200 ppm-O 200 ppm-D Skin 8&12 hr TWA 250 ppm-A 15 min(STEL)			
Methyl amyl ketone					
110-43-0	2.2	50 ppm-A 100 ppm-O			
Methyl ethyl ketone					
78-93-3	71.0	200 ppm-A,O 300 ppm-A 15 min(STEL) 200 ppm-D 8&12 hr TWA 300 ppm-D 15 min TWA			
Methyl isoamyl ketone					
110-12-3	4.5	50 ppm-A None-O			
Methyl isobutyl carbinol					
108-11-2	2.2	25 ppm-A,O Skin 40 ppm-A 15 min(STEL)			
Methyl isobutyl ketone					
108-10-1	15.0	50 ppm-A 100 ppm-O 75 ppm-A 15 min(STEL)			
Methyl n-propyl ketone					
107-87-9	27.8	200 ppm-A,O 250 ppm-A 15 min(STEL)			
Mixed dibasic esters					
Not Available	0.2	10 mg/m <sup>3</sup> -D None-A,O			
n-butyl alcohol					
71-36-3	5.5	50 ppm-A Ceiling Skin 100 ppm-O 25 ppm-D 50 ppm-D 15 min. TWA			
Naphthalene					
91-20-3	1.0 @ 52.6°C	10 ppm-A,O			
Oxo-octyl acetate					
108419-32-5	1.0 @ 25°C	50 ppm-S None-A,O			
Petroleum naphtha					
64742-89-8	50.0 @ 25°C	300 ppm-A,O 400 ppm-O 15 min(STEL)			
Polyamide resin					
68410-23-1	None				
Polyester					
Not Available	None				
Polyester resin A					
Not Available	Unknown				
Polyester resin B					
65086-73-9	None				
Polyester resin C					
Not Available	None				
Polyester resin D					
Not Available	None				
Polyester resin E					
Not Available	None				
Polyester resin F					
Not Available	None				
Polyethylene amine mixture					
Not Available	None				
Polyethylene/vinyl acetate					
Not Available	None				
Polyisocyanate resin					
Not Available	None				
Potassium sodium silicoaluminate					
Not Available	None				
Primary amyl acetate					
628-63-7	4.0	100 ppm-A,O			
Propionic acid, n-butyl ester					
590-01-2	3.4 @ 25°C	None-A,O			
Propylene glycol methyl ethyl					
107-98-2	10.9 @ 25°C	100 ppm-A 150 ppm-A 15 min(STEL) None-O			
Propylene glycol monomethyl ether acetate					
108-65-6	3.7	None-A,O 10 ppm-D			
Silica alumina ceramic					
Not Available	None				
Substituted benzotriazole					
127519-17-9	None	None-A,O			
Titanium dioxide					
13463-67-7	None	10 mg/m <sup>3</sup> -A,O 5 mg/m <sup>3</sup> -O Resp 10 mg/m <sup>3</sup> -D			
Toluene					
108-88-3	36.7	50 ppm-A Skin 200 ppm-O 300 ppm-O Ceiling 500 ppm-O 10 min MAX 50 ppm-D 8&12 hr TWA			
Trimer of hexamethylene diisocyanate					
3779-63-3	None	1 mg/m <sup>3</sup> -S 15 min(STEL) 0.5 mg/m <sup>3</sup> -S None-A,O			
VM&P Naphtha					
64742-89-8	15.0 @ 37.8°C	300 ppm-A,O 400 ppm-O 15 min(STEL) 100 ppm-D			
Water					
7732-18-5	23.6	None-A,O			
Wollastonite					
13983-17-0	None	2.0 fibers/cc -D Resp None-A,O			
Xylene					
1330-20-7	7.0 @ 25°C	100 ppm-A,O 150 ppm-A 15 min(STEL) 100 ppm-D 8&12 hr 150 ppm-D 15 min TWA			
Zinc phosphate A					
7779-90-0	None	10 mg/m <sup>3</sup> -A,O 5 mg/m <sup>3</sup> -O Resp			
Zinc phosphate B					
Not Available	None	10 mg/m <sup>3</sup> -A None-O			
1,2,4-Trimethyl benzene					
95-63-6	7.0 @ 44.4°C	25 ppm-A,O			
1,6 Hexamethylene diisocyanate					
822-06-0	Unknown	5 ppb-A None-O			
2(2-Hydroxy-3,5-diteramylphenyl) benzotriazole					

25973-55-1	Unknown	None-A,O
2-Hexyloxyethanol		
112-25-4	Unknown	None-A,O
2-Propoxyethanol-A		
2807-30-9	1.3 @ 25 °C	25 ppm-S Skin None-A,O
2-Propoxyethanol -B		
2807-30-9	1.3 @ 25 °C	25 ppm-S Skin None-A,O
2,2,4 Trimethyl-1,3 pentanediol monoisobutyrate		
25265-77-4	40.0	None-A,O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

### Section III - Physical Data

**Evaporation rate:** Less than ether  
**Vapor Density:** Heavier than air  
**Solubility in water:** Miscible  
**Percent volatile by volume:** 4.7% - 100%  
**Percent volatile by weight:** 3.8% - 100%  
**Boiling range:** 54°C - 900°C/ 129°F - 1652°F  
**Gallon weight:** 6.57 - 13.31 lb/gallon

### Section IV - Fire and Explosion Data

**Flash point (closed cup):** See Section X for exact values.  
**Flammable limits:** 0.7 - 23.0%  
**Extinguishing media:** Universal aqueous film-forming foam, carbon dioxide, dry chemical.  
**Special fire fighting procedures:** Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.  
**Unusual fire & explosion hazards:** When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

### Section V - Health Hazard Data

**General Effects:**  
**Ingestion:** Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**  
**Inhalation:** May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician. Additional effects when this material contains, or is mixed with an isocyanate activator/hardener: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with or breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product.  
**Skin or eye contact:** May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

**Specific Effects:**  
**Acetic Acid Ester** Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Over exposure may cause eye, nose and throat irritation. Repeated or prolonged liquid contact may cause skin irritation and dermatitis. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. **Acrylic Polymer-D** Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. **Acrylic Polymer-I, J, K, L, N, & Q** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Aliphatic**

**Polyisocyanate Polymer** Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. **Aliphatic Polyisocyanate Resin & Aliphatic Polymeric Isocyanate** Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Aromatic Hydrocarbon-A & B** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.  
**Bis(1,2,2,6,6-Pentamethyl-4-Piperdiny) Sebacate & Bisphenol-Epichlorohydrin Type Polymer** Repeated exposure may cause allergic skin rash, itching, swelling.  
**Bisphenol A/Epichlorohydrin Polymer** Repeated exposure may cause allergic skin rash, itching, swelling. Has shown mutagenic activity in laboratory cell culture tests. **Butyl Acetate** May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Butyl Benzyl Phthalate** Extremely high oral doses have caused tissue changes in the liver and testes of laboratory animals. Extremely high vapor aerosol doses have caused atrophy of the spleen and reproductive organs. Mice and rats were fed diets containing 0.6% and 1.2% of butyl benzyl phthalate. At the highest dose leukemias of the blood forming system were seen in female rats. No leukemia effect was seen in the female rats fed the lower level or in any of the mice. **Carbon Black** Is an IARC, NTP or OSHA carcinogen. **Diethylene Glycol Monobutyl Ether-A** Contact may cause skin irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive. **Diethylene Glycol Monobutyl Ether-B** Contact may cause skin irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive. **Diisobutyl Ketone** Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Repeated exposure may cause allergic skin rash, itching, swelling. **Ethyl Acetate** Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. **Ethyl 3-Ethoxy Propionate** Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Ethylbenzene** Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. **Ethylene Glycol Monobutyl Ether Acetate** Can be absorbed through the skin in harmful amounts. May destroy red blood cells. May cause abnormal kidney function. **Ethylene Glycol Monobutylether** Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in

laboratory animals at doses that are toxic to the mother. **Heptane** Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Hydrous Magnesium Silicate** Repeated and prolonged overexposure to talc may lead to typical x-ray changes and chronic lung disease. **Isopropyl Alcohol** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Medium Mineral Spirits** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Methyl Alcohol** Excessive human exposure to methanol may lead to: fatigue, headache, anaesthetic, neurologic effects, and visual difficulties including blindness or death. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Methyl Amyl Ketone** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Methyl Ethyl Ketone** High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. **Methyl Isoamyl Ketone** Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed. **Methyl Isobutyl Carbinol** Male rats exposed to very high airborne levels showed an increase in kidney weights. These effects were not seen in male rats exposed to lower concentrations, or in female rats at the same level. Liquid splashes in the eye may result in chemical burns. Extremely high concentrations have caused blood changes and weakness in laboratory animals. **Methyl Isobutyl Ketone** Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. **Mixed Dibasic Esters** High airborne levels in rats have shown mild injury to the olfactory region of the nose. **N-Butyl Alcohol** Liquid splashes in the eye may result in chemical burns. May cause abnormal blood forming function with anemia. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. **Naphthalene** Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the liver or kidneys may have increased susceptibility to the toxicity of excessive exposures. **Petroleum Naphtha** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Polyester Resin-C & D** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Polyisocyanate Resin** Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Primary Amyl Acetate** Recurrent overexposure may result in liver and kidney injury. **Propylene Glycol Methyl Ether** Overexposure may lead to kidney, liver and lung damage. Individuals with preexisting diseases of the liver may have increased susceptibility to the toxicity of excessive exposures. Can be absorbed through the skin in harmful amounts. **Propylene Glycol Monomethyl Ether Acetate** May cause moderate eye burning. Recurrent overexposure may result in liver and

kidney injury. **Titanium Dioxide** In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. **Toluene** Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm. **Trimer Of Hexamethylene Diisocyanate** Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **VM&P Naphtha** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **1,6-Hexamethylene Diisocyanate** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **2-Propoxyethanol-A & B** Can be absorbed through the skin in harmful amounts. May destroy red blood cells. Overexposure may cause damage to the kidneys, spleen and liver based on studies with laboratory animals. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** None reasonably foreseeable.

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke, oxides of heavy metals in Section II.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear respirator, eye protection, gloves and protective clothing. Confine and remove with inert absorbent.

If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C). Pour liquid decontamination solution

over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

20% Surfactant (Tergitol TMN 10) and 80% Water OR

0-10% Ammonia, 2-5% Detergent and Water (balance)

Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C).

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. When these products are used with paints requiring isocyanate activators/hardeners, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product is used without isocyanate activators/hardeners, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions and MSDS for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE      INGREDIENTS (See Section II)

**EZ-3460S** acrylic polymer-c, acrylic polymer-m, butyl acetate, ethylene glycol monobutyl ether acetate (3%), methyl amyl ketone, mixed dibasic esters, oxo-octyl acetate, toluene (5%), xylene (0-1%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
GAL WT: 8.14 WT PCT SOLIDS: 53.35 VOL PCT SOLIDS: 47.12  
SOLVENT DENSITY: 7.18 VOC LE: 3.8 VOC AP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**EZ-3461S** aliphatic polyisocyanate polymer, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate (4%)  
GAL WT: 8.70 WT PCT SOLIDS: 75.16 VOL PCT SOLIDS: 71.15  
SOLVENT DENSITY: 7.49 VOC LE: 2.2 VOC AP: 2.2 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-131S** acrylic polymer-b, barium sulfate, butyl benzyl phthalate, carbon black, ethyl acetate, ethylbenzene (1-3%), hydrous magnesium silicate, isopropyl alcohol, titanium dioxide, toluene (15%), xylene (8-10%), zinc phosphate-a (6%)  
GAL WT: 11.11 WT PCT SOLIDS: 58.91 VOL PCT SOLIDS: 36.21  
SOLVENT DENSITY: 7.16 VOC LE: 4.6 VOC AP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-161S** acrylic polymer-b, barium sulfate, butyl benzyl phthalate, carbon black, ethyl acetate, ethylbenzene (1-3%), hydrous magnesium silicate, iron oxide, isopropyl alcohol, toluene (15%), xylene (8-10%), zinc phosphate-a (6%)  
GAL WT: 11.14 WT PCT SOLIDS: 59.08 VOL PCT SOLIDS: 36.30  
SOLVENT DENSITY: 7.16 VOC LE: 4.6 VOC AP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-192S** aliphatic polyisocyanate resin, heptane, methyl amyl ketone, methyl ethyl ketone (15%), toluene (26%)  
GAL WT: 7.67 WT PCT SOLIDS: 38.38 VOL PCT SOLIDS: 30.25  
SOLVENT DENSITY: 6.78 VOC LE: 4.7 VOC AP: 4.7 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-195S** aliphatic polymeric isocyanate, heptane, methyl amyl ketone, methyl ethyl ketone (9%), toluene (15%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.36 WT PCT SOLIDS: 63.70 VOL PCT SOLIDS: 55.19  
SOLVENT DENSITY: 6.77 VOC LE: 3.0 VOC AP: 3.0 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-2603S** acetic acid ester, ethylbenzene (2-6%), hexyl acetate isomers, methyl amyl ketone, methyl isobutyl ketone (14%), n-butyl alcohol (11%), polyamide resin, xylene (23-27%)  
GAL WT: 7.08 WT PCT SOLIDS: 12.38 VOL PCT SOLIDS: 10.82  
SOLVENT DENSITY: 6.96 VOC LE: 6.2 VOC AP: 6.2 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-3602S** acetone, aromatic hydrocarbon-a, ethyl 3-ethoxy propionate, isopropyl alcohol, methyl alcohol (4%), methyl isoamyl ketone, n-butyl alcohol (17%), petroleum naphtha, toluene (6-8%), vm&p naphtha, xylene (0-1%), 1,2,4-trimethyl benzene (0-3%)  
GAL WT: 6.60 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.60 VOC LE: 6.6 VOC AP: 5.4 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**V-3608S** acetone, aromatic hydrocarbon-a, cyclohexane (0-1%), ethyl 3-ethoxy propionate, isopropyl alcohol, methyl alcohol (4%), petroleum naphtha, toluene (10-12%), 1,2,4-trimethyl benzene (0-3%)  
GAL WT: 6.54 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.54 VOC LE: 6.5 VOC AP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**V-3613S** acetone, isopropyl alcohol, methyl alcohol (4%), petroleum naphtha, toluene (20-21%)  
GAL WT: 6.57 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.57 VOC LE: 6.6 VOC AP: 3.2 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**V-3661S** acetone, aromatic hydrocarbon-b, ethyl 3-ethoxy propionate, isopropyl alcohol, methyl alcohol (4%), n-butyl alcohol (6%), naphthalene (0-1%), petroleum naphtha, toluene (11-13%), vm&p naphtha, xylene (0-1%), 1,2,4-trimethyl benzene (0-1%)  
GAL WT: 6.57 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.57 VOC LE: 6.6 VOC AP: 5.0 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**V-3665S** acetone, diisobutyl ketone, oxo-octyl acetate, GAL WT: 6.57 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.57 VOC LE: 6.8 VOC AP: 0.7 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**V-3675S** acetone, diisobutyl ketone, oxo-octyl acetate, GAL WT: 6.59 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.59 VOC LE: 6.8 VOC AP: 0.9 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**V-3696S** acetone, aromatic hydrocarbon-a, cyclohexane (0-1%), ethyl 3-ethoxy propionate, isopropyl alcohol, methyl alcohol (4%), methyl isoamyl ketone, mixed dibasic esters, petroleum naphtha, toluene (5-8%), 1,2,4-trimethyl benzene (0-3%)  
GAL WT: 6.60 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.60 VOC LE: 6.6 VOC AP: 5.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-65S** aliphatic polymeric isocyanate, ethyl acetate, GAL WT: 8.38 WT PCT SOLIDS: 47.97 VOL PCT SOLIDS: 41.65  
SOLVENT DENSITY: 7.47 VOC LE: 4.4 VOC AP: 4.4 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-75S** aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylbenzene (2-7%), toluene (4%), xylene (20-24%)  
GAL WT: 8.26 WT PCT SOLIDS: 48.29 VOL PCT SOLIDS: 41.34  
SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-7500S** acetone, acrylic polymer-j, benzene, 1-chloro-4 (trifluoromethyl), butyl acetate, ethylbenzene (3-8%), methyl ethyl ketone (8%), methyl isobutyl ketone (8%), polyester resin-b, toluene (2%), xylene (23-28%)  
GAL WT: 7.87 WT PCT SOLIDS: 40.09 VOL PCT SOLIDS: 34.30  
SOLVENT DENSITY: 7.18 VOC LE: 4.5 VOC AP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-7565S** aliphatic polymeric isocyanate, ethyl acetate, methyl ethyl ketone (8%), toluene (13%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.46 WT PCT SOLIDS: 58.18 VOL PCT SOLIDS: 51.04  
SOLVENT DENSITY: 7.23 VOC LE: 3.5 VOC AP: 3.5 H: 3 F: 3

R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-7575S** aliphatic polymeric isocyanate, butyl acetate, ethylbenzene (1-3%), propylene glycol monomethyl ether acetate, xylene (9-11%), 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 8.57 WT PCT SOLIDS: 58.20 VOL PCT SOLIDS: 51.71  
 SOLVENT DENSITY: 7.42 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 3  
 R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**V-7585S** aliphatic polymeric isocyanate, ethyl 3-ethoxy propionate, ethylbenzene (0-2%), hexyl acetate isomers, propylene glycol monomethyl ether acetate, xylene (6-8%), 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 8.67 WT PCT SOLIDS: 58.20 VOL PCT SOLIDS: 52.29  
 SOLVENT DENSITY: 7.60 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 3  
 R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**V-7595S** acetic acid ester of c9-11 oxo-alcohol, aliphatic polymeric isocyanate, aromatic hydrocarbon-a, cumene (0-1%), ethylene glycol monobutyl ether acetate (13%), hexyl acetate isomers, 1,2,4-trimethyl benzene (1-6%), 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 8.57 WT PCT SOLIDS: 58.20 VOL PCT SOLIDS: 51.66  
 SOLVENT DENSITY: 7.41 VOC LE: 3.6 VOC AP: 3.6 H: 3 F: 2  
 R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**V-7600S** acetone, acrylic polymer, benzene, 1-chloro-4 (trifluoromethyl), butyl acetate, ethylbenzene (3-7%), methyl ethyl ketone (8%), methyl isobutyl ketone (9%), polyester resin, toluene (2%), xylene (22-27%)  
 GAL WT: 7.88 WT PCT SOLIDS: 41.99 VOL PCT SOLIDS: 36.04  
 SOLVENT DENSITY: 7.15 VOC LE: 4.3 VOC AP: 4.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-7644S** acrylic polymer-g, ethyl acetate, ethylbenzene (2-7%), methyl ethyl ketone (5%), polyester resin-b, xylene (20-25%)  
 GAL WT: 8.34 WT PCT SOLIDS: 66.42 VOL PCT SOLIDS: 60.66  
 SOLVENT DENSITY: 7.12 VOC LE: 2.8 VOC AP: 2.8 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-7655S** aliphatic polyisocyanate resin, ethyl acetate  
 GAL WT: 8.41 WT PCT SOLIDS: 48.00 VOL PCT SOLIDS: 41.48  
 SOLVENT DENSITY: 7.47 VOC LE: 4.4 VOC AP: 4.4 H: 3 F: 3  
 R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-7675S** aliphatic polyisocyanate resin, butyl acetate, ethylbenzene (1-3%), propylene glycol monomethyl ether acetate, toluene (15%), xylene (9-12%)  
 GAL WT: 8.33 WT PCT SOLIDS: 48.36 VOL PCT SOLIDS: 41.40  
 SOLVENT DENSITY: 7.34 VOC LE: 4.3 VOC AP: 4.3 H: 3 F: 3  
 R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-793S** aliphatic polyisocyanate resin, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate (4%), 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 9.05 WT PCT SOLIDS: 74.96 VOL PCT SOLIDS: 69.73  
 SOLVENT DENSITY: 7.49 VOC LE: 2.3 VOC AP: 2.3 H: 3 F: 3  
 R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-8022S** acetone, aromatic hydrocarbon-b, butyl acetate, diisobutyl ketone, ethylbenzene (0-1%), ethylene glycol monobutyl ether acetate (7%), medium mineral spirits, mixed dibasic esters, naphthalene (0-1%), toluene (4-7%), vm&p naphtha, xylene (0-3%), 1,2,4-trimethyl benzene (0-1%)  
 GAL WT: 6.71 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.71 VOC LE: 6.7 VOC AP: 6.3 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**V-8034S** acetone, aromatic hydrocarbon-b, cyclohexane (0-1%), ethyl acetate, ethylene glycol monobutyl ether acetate (5%), medium mineral spirits, mixed dibasic esters, naphthalene (0-1%), petroleum naphtha, propylene glycol monomethyl ether acetate, toluene (8-10%), 1,2,4-trimethyl benzene (0-1%)  
 GAL WT: 6.67 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.67 VOC LE: 6.7 VOC AP: 5.8 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-8093S** acetone, ethylbenzene (0-1%), ethylene glycol monobutyl ether acetate (12%), medium mineral spirits, mixed dibasic esters, propylene glycol monomethyl ether acetate, toluene (8-10%), vm&p naphtha, xylene (0-3%), 1,2,4-trimethyl benzene (0-1%)  
 GAL WT: 6.89 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.89 VOC LE: 6.9 VOC AP: 6.4 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-8096S** acetone, aromatic hydrocarbon-b, diethylene glycol monobutyl ether-b (2%), ethylbenzene (0-1%), ethylene glycol monobutyl ether acetate (8%), medium mineral spirits, mixed dibasic esters, propylene glycol monomethyl ether acetate, toluene (8-10%), vm&p naphtha, xylene (0-2%), 1,2,4-trimethyl benzene (0-1%), 2,2,4-trimethyl-1,3-pentanediolmonoisobutyrate  
 GAL WT: 6.93 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.93 VOC LE: 7.0 VOC AP: 6.5 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-8275S** acetone, acrylic polymer-d, butyl acetate, ethylbenzene (0-2%), ethylene glycol monobutyl ether acetate (4%), hexyl acetate isomers, methyl ethyl ketone (20%), polyethylene/vinyl

acetate, propylene glycol monomethyl ether acetate, xylene (6-8%)  
 GAL WT: 7.15 WT PCT SOLIDS: 3.12 VOL PCT SOLIDS: 2.55  
 SOLVENT DENSITY: 7.11 VOC LE: 7.0 VOC AP: 5.9 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-8365S** acetone, aromatic hydrocarbon-b, ethyl 3-ethoxy propionate, heptane, isopropyl alcohol, n-butyl alcohol (3%), naphthalene (0-1%), propionic acid, n-butyl ester, toluene (12-13%), vm&p naphtha, xylene (0-1%), 1,2,4-trimethyl benzene (0-1%)  
 GAL WT: 6.60 WT PCT SOLIDS: 1.05 VOL PCT SOLIDS: 0.70  
 SOLVENT DENSITY: 6.58 VOC LE: 6.5 VOC AP: 4.9 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-8375S** acetone, butyl acetate, ethylbenzene (0-1%), heptane, isopropyl alcohol, medium mineral spirits, n-butyl alcohol (6%), propionic acid, n-butyl ester, toluene (8%), vm&p naphtha, xylene (2-4%), 2-hexyloxyethanol  
 GAL WT: 6.60 WT PCT SOLIDS: 1.07 VOL PCT SOLIDS: 0.70  
 SOLVENT DENSITY: 6.58 VOC LE: 6.5 VOC AP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-85S** aliphatic polymeric isocyanate, ethylbenzene (2-6%), hexyl acetate isomers, propylene glycol monomethyl ether acetate, xylene (17-20%)  
 GAL WT: 8.37 WT PCT SOLIDS: 47.72 VOL PCT SOLIDS: 41.38  
 SOLVENT DENSITY: 7.46 VOC LE: 4.4 VOC AP: 4.4 H: 3 F: 3  
 R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**V-8575S** heptane, hexyl acetate isomers, isopropyl alcohol, methyl ethyl ketone (50%)  
 GAL WT: 6.27 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.27 VOC LE: 6.3 VOC AP: 6.3 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-8585S** ethyl 3-ethoxy propionate, heptane, hexyl acetate isomers, methyl ethyl ketone (36%), n-butyl alcohol (3%)  
 GAL WT: 6.39 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.39 VOC LE: 6.4 VOC AP: 6.4 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-8595S** acetic acid ester, heptane, hexyl acetate isomers, methyl ethyl ketone (27%), n-butyl alcohol (7%)  
 GAL WT: 6.43 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.43 VOC LE: 6.4 VOC AP: 6.4 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-9465S** aromatic hydrocarbon-a, aromatic hydrocarbon-b, butyl acetate, cyclohexane (0-1%), ethyl 3-ethoxy propionate, isopropyl alcohol, methyl ethyl ketone (13%), petroleum naphtha, toluene (14-17%), 1,2,4-trimethyl benzene (0-1%)  
 GAL WT: 6.64 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.64 VOC LE: 6.6 VOC AP: 6.6 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-9475S** aromatic hydrocarbon-a, diisobutyl ketone, ethylene glycol monobutyl ether acetate (11%), isopropyl alcohol, methyl ethyl ketone (15%), methyl isoamyl ketone, petroleum naphtha, toluene (12-14%), 1,2,4-trimethyl benzene (0-3%)  
 GAL WT: 6.70 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.70 VOC LE: 6.7 VOC AP: 6.7 H: 2 F: 3  
 R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**V-9485S** aromatic hydrocarbon-b, diisobutyl ketone, ethylene glycol monobutyl ether acetate (5%), isopropyl alcohol, medium mineral spirits, methyl ethyl ketone (11%), methyl isoamyl ketone, naphthalene (0-1%), toluene (8%), 1,2,4-trimethyl benzene (0-2%)  
 GAL WT: 6.72 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.72 VOC LE: 6.7 VOC AP: 6.7 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-9495S** aromatic hydrocarbon-b, diisobutyl ketone, medium mineral spirits, methyl ethyl ketone (9%), methyl isobutyl carbinol, mixed dibasic esters, naphthalene (0-2%), toluene (0-1%), vm&p naphtha, xylene (0-1%), 1,2,4-trimethyl benzene (0-2%)  
 GAL WT: 6.74 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
 SOLVENT DENSITY: 6.74 VOC LE: 6.7 VOC AP: 6.7 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**V-95S** aliphatic polymeric isocyanate, aromatic hydrocarbon-a, cumene (0-2%), ethyl 3-ethoxy propionate, ethylene glycol monobutyl ether acetate (5%), xylene (0-1%), 1,2,4-trimethyl benzene (3-14%)  
 GAL WT: 8.37 WT PCT SOLIDS: 47.98 VOL PCT SOLIDS: 41.63  
 SOLVENT DENSITY: 7.46 VOC LE: 4.4 VOC AP: 4.4 H: 3 F: 2  
 R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**210S** acrylic polymer-q, carbon black, ethylene glycol monobutylether (1%), hydrous magnesium silicate, methyl alcohol (2%), titanium dioxide, water  
 GAL WT: 10.80 WT PCT SOLIDS: 45.91 VOL PCT SOLIDS: 28.46  
 SOLVENT DENSITY: 8.17 VOC LE: 1.6 VOC AP: 0.6 H: 1 F: 2  
 R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**2100S** acetone, acrylic polymer-n, benzene, 1-chloro-4 (trifluoromethyl), bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, butyl acetate, methyl amyl ketone, polyester resin-b, polyester resin-f, substituted benzotriazole  
 GAL WT: 9.22 WT PCT SOLIDS: 50.13 VOL PCT SOLIDS: 49.45

SOLVENT DENSITY: 9.10 VOC LE: 2.2 VOC AP: 1.6 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**2105S** benzene, 1-chloro-4 (trifluoromethyl), ethylbenzene (1-3%), methyl amyl ketone, trimer of hexamethylene diisocyanate, xylene (10-13%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 9.36 WT PCT SOLIDS: 63.63 VOL PCT SOLIDS: 62.26  
SOLVENT DENSITY: 9.02 VOC LE: 1.7 VOC AP: 1.4 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**2165S** acetone, benzene, 1-chloro-4 (trifluoromethyl),  
GAL WT: 7.24 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.24 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 3  
R: 1 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**2175S** acetone, benzene, 1-chloro-4 (trifluoromethyl),  
GAL WT: 8.71 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 8.71 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**2185S** benzene, 1-chloro-4 (trifluoromethyl),  
GAL WT: 11.15 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 11.15 VOC LE: 0.0 VOC AP: 0.0 H: 1 F: 2  
R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II  
**2705S** hexyl acetate isomers, isopropyl alcohol, methyl amyl ketone, methyl ethyl ketone (27%), methyl isobutyl ketone (12%), polyamide resin, propylene glycol monomethyl ether acetate, toluene (20%)  
GAL WT: 7.11 WT PCT SOLIDS: 20.66 VOL PCT SOLIDS: 18.08  
SOLVENT DENSITY: 6.89 VOC LE: 5.6 VOC AP: 5.6 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**2710S** bisphenol a/epichlorohydrin polymer, butyl acetate, calcium strontium zinc phosphosilicate (4%), ethylbenzene (1-4%), methyl amyl ketone, methyl isobutyl ketone (5%), n-butyl alcohol (3%), titanium dioxide, toluene (3%), wollastonite, xylene (10-13%), zinc phosphate-b (6%)  
GAL WT: 12.67 WT PCT SOLIDS: 68.08 VOL PCT SOLIDS: 42.80  
SOLVENT DENSITY: 7.07 VOC LE: 4.0 VOC AP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**2740S** bisphenol a/epichlorohydrin polymer, butyl acetate, calcium carbonate, calcium strontium zinc phosphosilicate (6%), carbon black, ethylbenzene (1-4%), hydrous magnesium silicate, methyl amyl ketone, methyl isobutyl ketone (4%), n-butyl alcohol (3%), titanium dioxide, toluene (3%), wollastonite, xylene (12-14%), zinc phosphate-b (8%)  
GAL WT: 11.81 WT PCT SOLIDS: 65.72 VOL PCT SOLIDS: 42.90  
SOLVENT DENSITY: 7.09 VOC LE: 4.0 VOC AP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**275S** bisphenol a/epoxy, phenolic resin, bisphenol-epichlorohydrin type polymer, carbon black, ethylene glycol monobutylether (1%), hydrous magnesium silicate, silica alumina ceramic, titanium dioxide, water, wollastonite, zinc phosphate-b (9%), 2-propoxyethanol-a (2%), 2-propoxyethanol-b (2%)  
GAL WT: 10.93 WT PCT SOLIDS: 54.50 VOL PCT SOLIDS: 39.41  
SOLVENT DENSITY: 8.21 VOC LE: 1.4 VOC AP: 0.7 H: 2 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB  
**2770S** barium sulfate, bisphenol a/epichlorohydrin polymer, butyl acetate, calcium strontium zinc phosphosilicate (6%), carbon black, ethylbenzene (1-4%), hydrous magnesium silicate, methyl amyl ketone, methyl isobutyl ketone (5%), n-butyl alcohol (3%), titanium dioxide, toluene (3%), wollastonite, xylene (11-14%), zinc phosphate-b (8%)  
GAL WT: 11.87 WT PCT SOLIDS: 65.93 VOL PCT SOLIDS: 42.85  
SOLVENT DENSITY: 7.08 VOC LE: 4.0 VOC AP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**285S** ethylene glycol monobutylether (2%), hydrous magnesium silicate, polyethylene amine mixture, propylene glycol methyl ether, titanium dioxide, water, wollastonite, 2-propoxyethanol-a (6%)  
GAL WT: 10.77 WT PCT SOLIDS: 42.25 VOL PCT SOLIDS: 23.64  
SOLVENT DENSITY: 8.15 VOC LE: 3.3 VOC AP: 1.4 H: 3 F: 2  
R: 1 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA  
**3100S** acrylic polymer-g, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, diethylene glycol monobutyl ether-a (4%), ethyl acetate, ethylbenzene (1-4%), hexyl acetate isomers, methyl ethyl ketone (7%), methyl isobutyl ketone (5%), polyester resin-b, propionic acid, n-butyl ester, propylene glycol methyl ether, propylene glycol monomethyl ether acetate, substituted benzotriazole, xylene (12-15%)  
GAL WT: 7.96 WT PCT SOLIDS: 49.14 VOL PCT SOLIDS: 43.76  
SOLVENT DENSITY: 7.20 VOC LE: 4.0 VOC AP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**3105S** ethyl acetate, polyisocyanate resin, 1,6-hexamethylene diisocyanate (<0.5%)  
GAL WT: 9.41 WT PCT SOLIDS: 96.24 VOL PCT SOLIDS: 95.28  
SOLVENT DENSITY: 7.50 VOC LE: 0.4 VOC AP: 0.4 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**3110S** blocked diamine (93%), ethylbenzene (0-2%), xylene (5-7%),  
GAL WT: 7.16 WT PCT SOLIDS: 92.70 VOL PCT SOLIDS: 92.73  
SOLVENT DENSITY: 7.19 VOC LE: 0.5 VOC AP: 0.5 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**3189S** isopropyl alcohol  
GAL WT: 6.55 WT PCT SOLIDS: 0.92 VOL PCT SOLIDS: 0.58  
SOLVENT DENSITY: 6.53 VOC LE: 6.5 VOC AP: 6.5 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**32030S** acetone,  
GAL WT: 6.55 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.55 VOC LE: 0.0 VOC AP: 0.0 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB  
**3205S** butyl acetate, hexyl acetate isomers, methyl isoamyl ketone polyisocyanate resin,  
GAL WT: 8.54 WT PCT SOLIDS: 67.16 VOL PCT SOLIDS: 60.38  
SOLVENT DENSITY: 7.08 VOC LE: 2.8 VOC AP: 2.8 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**3240S** acrylic polymer-i, butyl acetate, calcium strontium zinc phosphosilicate (10%), carbon black, ethylbenzene (0-1%), hydrous magnesium silicate, ketimine, methyl isobutyl ketone (4%), potassium sodium silicoaluminate (2%), propylene glycol monomethyl ether acetate, silica-alumina ceramic (17%), titanium dioxide, wollastonite, xylene (3-4%)  
GAL WT: 13.31 WT PCT SOLIDS: 86.91 VOL PCT SOLIDS: 75.79  
SOLVENT DENSITY: 7.20 VOC LE: 1.7 VOC AP: 1.7 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**3500S** acrylic polymer-i, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, ethylbenzene (0-1%), hexyl acetate isomers, methyl amyl ketone, methyl ethyl ketone (5%), polyester resin-a, substituted benzotriazole, xylene (2-3%)  
GAL WT: 8.12 WT PCT SOLIDS: 57.81 VOL PCT SOLIDS: 50.24  
SOLVENT DENSITY: 6.88 VOC LE: 3.4 VOC AP: 3.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**3575S** aliphatic polymeric isocyanate, aromatic hydrocarbon-a, cumene (0-1%), primary amyl acetate, 1,2,4-trimethyl benzene (1-5%), 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 8.97 WT PCT SOLIDS: 76.76 VOL PCT SOLIDS: 71.33  
SOLVENT DENSITY: 7.27 VOC LE: 2.1 VOC AP: 2.1 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**3600S** acetone, acrylic polymer-g, benzene, 1-chloro-4 (trifluoromethyl), butyl acetate, ethylbenzene (2-5%), isopropyl alcohol, methyl ethyl ketone (4%), methyl isoamyl ketone, methyl isobutyl ketone (2%), polyester resin-d, polyester resin-e, substituted benzotriazole, xylene (15-19%)  
GAL WT: 8.24 WT PCT SOLIDS: 47.95 VOL PCT SOLIDS: 42.92  
SOLVENT DENSITY: 7.51 VOC LE: 3.4 VOC AP: 2.9 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**3605S** benzene, 1-chloro-4 (trifluoromethyl), butyl acetate, methyl isoamyl ketone, trimer of hexamethylene diisocyanate, 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 9.47 WT PCT SOLIDS: 58.71 VOL PCT SOLIDS: 58.12  
SOLVENT DENSITY: 9.34 VOC LE: 1.7 VOC AP: 1.3 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**3700S** acrylic polymer-k, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, diethylene glycol monobutyl ether-a (5%), ethyl acetate, ethylbenzene (1-2%), hexyl acetate isomers, methyl ethyl ketone (7%), methyl isobutyl ketone (7%), oxo-octyl acetate, propionic acid, n-butyl ester, propylene glycol methyl ether, propylene glycol monomethyl ether acetate, substituted benzotriazole, xylene (7-9%)  
GAL WT: 7.75 WT PCT SOLIDS: 34.40 VOL PCT SOLIDS: 30.04  
SOLVENT DENSITY: 7.27 VOC LE: 5.1 VOC AP: 5.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**3705S** butyl acetate, trimer of hexamethylene diisocyanate, 1,6-hexamethylene diisocyanate (<0.2%)  
GAL WT: 9.43 WT PCT SOLIDS: 95.01 VOL PCT SOLIDS: 93.59  
SOLVENT DENSITY: 7.34 VOC LE: 0.5 VOC AP: 0.5 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC  
**3710S** aliphatic polyamine (36%), blocked diamine (55%), ethylbenzene (0-2%), xylene (6-8%)  
GAL WT: 7.10 WT PCT SOLIDS: 91.32 VOL PCT SOLIDS: 91.44  
SOLVENT DENSITY: 7.20 VOC LE: 0.6 VOC AP: 0.6 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**3789S** acetone, isopropyl alcohol, water,  
GAL WT: 6.70 WT PCT SOLIDS: 0.80 VOL PCT SOLIDS: 0.51  
SOLVENT DENSITY: 6.68 VOC LE: 6.5 VOC AP: 5.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB  
**3909S** aliphatic solvent mixture, water,  
GAL WT: 8.30 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 8.30 VOC LE: 8.1 VOC AP: 0.5 H: 2 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB  
**3949S** aliphatic hydrocarbon/aliphatic ester/surfactant, water,  
GAL WT: 8.25 WT PCT SOLIDS: 0.14 VOL PCT SOLIDS: 0.15  
SOLVENT DENSITY: 8.25 VOC LE: 6.9 VOC AP: 0.4 H: 0 F: 1  
R: 0 FLASH PT: ABOVE 200 F (CC) OSHA STORAGE: IIIB  
**4310S** bisphenol a/epichlorohydrin polymer, butyl acetate, ethylbenzene (0-1%), hydrous magnesium silicate, isobutyl acetate, isopropyl alcohol, methyl ethyl ketone (8%), titanium dioxide, toluene (8%), xylene (4-5%), zinc phosphate-a (4%)

GAL WT: 11.81 WT PCT SOLIDS: 64.76 VOL PCT SOLIDS: 41.08  
 SOLVENT DENSITY: 7.06 VOC LE: 4.2 VOC AP: 4.2 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**4350S** barium sulfate, bisphenol a/epichlorohydrin polymer, butyl acetate, ethylbenzene (0-1%), hydrous magnesium silicate, iron oxide, isobutyl acetate, isopropyl alcohol, methyl ethyl ketone (8%), toluene (10%), xylene (4-5%), zinc phosphate-a (5%)  
 GAL WT: 10.86 WT PCT SOLIDS: 58.87 VOL PCT SOLIDS: 36.66  
 SOLVENT DENSITY: 7.05 VOC LE: 4.5 VOC AP: 4.5 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**4390S** barium sulfate, bisphenol a/epichlorohydrin polymer, butyl acetate, carbon black, ethylbenzene (0-1%), hydrous magnesium silicate, isobutyl acetate, isopropyl alcohol, methyl ethyl ketone (9%), toluene (10%), xylene (4-5%), zinc phosphate-a (5%)  
 GAL WT: 10.58 WT PCT SOLIDS: 57.82 VOL PCT SOLIDS: 36.68  
 SOLVENT DENSITY: 7.05 VOC LE: 4.5 VOC AP: 4.5 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**480S** acetone, acrylic polymer-a, acrylic polymer-o, butyl benzyl phthalate, cellulose acetate butyrate, heptane, isopropyl alcohol, methyl ethyl ketone (3%), methyl isoamyl ketone, n-butyl alcohol (4%), propylene glycol monomethyl ether acetate, toluene (8%), xylene (0-1%)  
 GAL WT: 7.01 WT PCT SOLIDS: 14.81 VOL PCT SOLIDS: 10.62  
 SOLVENT DENSITY: 6.68 VOC LE: 5.8 VOC AP: 4.5 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**680S** acrylic polymer-p, ethyl acetate, methyl ethyl ketone (1%), propylene glycol monomethyl ether acetate, toluene (8%), xylene (0-1%)  
 GAL WT: 8.27 WT PCT SOLIDS: 31.62 VOL PCT SOLIDS: 27.34  
 SOLVENT DENSITY: 7.78 VOC LE: 5.7 VOC AP: 5.7 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**6800S** acrylic polymer-f, beta-(3-(2h-benzotriazol-2-yl)-4-hydroxy-5-tert. ethylbenzene (1-3%), hindered amine, methyl amyl ketone, methyl ethyl ketone (5%), propylene glycol monomethyl ether acetate, xylene (8-10%)  
 GAL WT: 7.89 WT PCT SOLIDS: 53.08 VOL PCT SOLIDS: 47.49  
 SOLVENT DENSITY: 7.05 VOC LE: 3.7 VOC AP: 3.7 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**682S** aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate (4%), 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 9.00 WT PCT SOLIDS: 75.03 VOL PCT SOLIDS: 69.97  
 SOLVENT DENSITY: 7.48 VOC LE: 2.2 VOC AP: 2.2 H: 3 F: 3  
 R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**6875S** aliphatic polymeric isocyanate, hexyl acetate isomers, propylene glycol monomethyl ether acetate, 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 8.95 WT PCT SOLIDS: 70.17 VOL PCT SOLIDS: 65.08  
 SOLVENT DENSITY: 7.65 VOC LE: 2.7 VOC AP: 2.7 H: 3 F: 2  
 R: 1 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**6885S** aliphatic polymeric isocyanate, ethylene glycol monobutyl ether acetate (9%), hexyl acetate isomers, propylene glycol monomethyl ether acetate, 1,6-hexamethylene diisocyanate (<0.2%)  
 GAL WT: 8.94 WT PCT SOLIDS: 70.63 VOL PCT SOLIDS: 65.42  
 SOLVENT DENSITY: 7.59 VOC LE: 2.6 VOC AP: 2.6 H: 3 F: 2  
 R: 1 FLASH PT: BETWEEN 140 - 200 F (CC) OSHA STORAGE: IIIA

**7021N** acrylic polymer-h, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, diethylene glycol monobutyl ether-a (3%), ethyl acetate, methyl amyl ketone, methyl ethyl ketone (9%), propylene glycol monomethyl ether acetate, xylene (0-1%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
 GAL WT: 7.97 WT PCT SOLIDS: 52.22 VOL PCT SOLIDS: 45.08  
 SOLVENT DENSITY: 6.93 VOC LE: 3.8 VOC AP: 3.8 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7031N** acrylic polymer-h, butyl acetate, methyl amyl ketone, methyl ethyl ketone (9%), propylene glycol monomethyl ether acetate, xylene (0-1%)  
 GAL WT: 7.91 WT PCT SOLIDS: 46.02 VOL PCT SOLIDS: 38.76  
 SOLVENT DENSITY: 6.97 VOC LE: 4.3 VOC AP: 4.3 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7544S** acrylic polymer-q, ethylbenzene (10-11%), methyl ethyl ketone (3%), polyester, xylene (31-32%)  
 GAL WT: 8.16 WT PCT SOLIDS: 53.93 VOL PCT SOLIDS: 47.58  
 SOLVENT DENSITY: 7.17 VOC LE: 3.8 VOC AP: 3.8 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**7644S** acrylic polymer-e, bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, ethylbenzene (3-7%), methyl ethyl ketone (7%), polyester resin-b, xylene (22-27%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
 GAL WT: 8.30 WT PCT SOLIDS: 61.38 VOL PCT SOLIDS: 54.75  
 SOLVENT DENSITY: 7.08 VOC LE: 3.2 VOC AP: 3.2 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8165S** bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, ethyl acetate, ethyl 3-ethoxy propionate, ethylbenzene (0-2%), polyester resin-c, toluene (16-17%), vm&p naphtha, xylene (4-6%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
 GAL WT: 7.74 WT PCT SOLIDS: 35.50 VOL PCT SOLIDS: 30.34  
 SOLVENT DENSITY: 7.17 VOC LE: 5.0 VOC AP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8170S** acetone, alkyd resin, butyl acetate, dehydrated castor oil, diethylene glycol monobutyl ether-b (6%), ethyl 3-ethoxy propionate, ethylbenzene (0-2%), methyl amyl ketone, methyl n-propyl ketone, toluene (0-1%), vm&p naphtha, xylene (4-6%)  
 GAL WT: 7.41 WT PCT SOLIDS: 28.74 VOL PCT SOLIDS: 24.74  
 SOLVENT DENSITY: 7.02 VOC LE: 5.2 VOC AP: 5.0 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8175S** bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, diethylene glycol monobutyl ether-b (7%), ethyl 3-ethoxy propionate, ethylbenzene (0-2%), polyester resin-c, toluene (0-1%), vm&p naphtha, xylene (4-7%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
 GAL WT: 7.65 WT PCT SOLIDS: 35.48 VOL PCT SOLIDS: 29.97  
 SOLVENT DENSITY: 7.05 VOC LE: 4.9 VOC AP: 4.9 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8180S** alkyd resin, butyl acetate, dehydrated castor oil, diethylene glycol monobutyl ether-b (6%), ethyl 3-ethoxy propionate, ethylbenzene (0-2%), methyl amyl ketone, methyl n-propyl ketone, toluene (0-1%), vm&p naphtha, xylene (4-6%)  
 GAL WT: 7.42 WT PCT SOLIDS: 28.75 VOL PCT SOLIDS: 24.78  
 SOLVENT DENSITY: 7.03 VOC LE: 5.3 VOC AP: 5.3 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8185S** bis(1,2,2,6,6-pentamethyl-4-piperdiny) sebacate, butyl acetate, diethylene glycol monobutyl ether-b (7%), ethyl 3-ethoxy propionate, ethylbenzene (0-2%), ethylene glycol monobutyl ether acetate (11%), polyester resin-c, vm&p naphtha, xylene (4-6%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
 GAL WT: 7.86 WT PCT SOLIDS: 35.47 VOL PCT SOLIDS: 30.78  
 SOLVENT DENSITY: 7.33 VOC LE: 5.1 VOC AP: 5.1 H: 2 F: 3  
 R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**Notice:** The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

**Product Manager - Refinish Sales**

*Prepared by D. G. Detweiler*



# IMRON® 6000 POLYURETHANE ENAMEL

## Section I - Manufacturer

### Manufacturer:

DuPont Co.  
Automotive  
Wilmington, Delaware 19898

### Telephone:

Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Imron® 6000 Basecoat/Clearcoat

OSHA Hazard Class: Flammable liquid

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section X.

## Section II - Hazardous Ingredients

(See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C, mm Hg)	Exposure Limits
Acetone	67-64-1	184.0	500 ppm-A 8 hr TWA 1000 ppm-O 8 hr TWA 750 ppm-A 15 min (STEL) 500 ppm-D 8&12 hr
Acrylic polymer A	42767-92-0	None	None-A,O
Acrylic polymer B	Not Available	None	None-A,O
Acrylic polymer C	77358-01-1	None	None-A,O
Acrylic polymer D	70942-12-0	None	None-A,O
Acrylic polymer E	96591-17-2	None	None-A,O
Acrylic polymer F	69215-54-9	None	None-A,O
Acrylic polymer G	Not Available	None	None-A,O
Acrylic polymer H	104032-39-5	None	None-A,O
Acrylic polymer I	104032-39-5	None	None-A,O
Acrylic polymer J	25067-83-8	None	None-A,O
Acrylic polymer K	26061-99-4	None	None-A,O
Acrylic polymer L	80010-53-3	None	None-A,O
Acrylic polymer M	Not Available	None	None-A,O
Acrylic polymer N	148969-95-3	None	None-A,O
Acrylic polymer O	Not Available	None	None-A,O
Aliphatic polyisocyanate polymer	Not Available	None	None-A,O
Aliphatic polyisocyanate resin	28182-81-2	None	1.0 mg/m³-S 15 min (STEL) 0.5 mg/m³-S None-A,O
Aliphatic polymeric isocyanate	3779-63-3	None	0.5 mg/m³-S 8 hr TWA 1.0 mg/m³-S 15 min (STEL) None - A,O 10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Aluminum	7429-90-5	None	None
Amorphous silica	92797-60-9	None	0.2 mg/m³-A Resp 1 mg/m³-A 15 min (STEL)
Anthraquinone pigment	Not Available	None	15 mg/m³-O 5 mg/m³-O Resp
Aromatic hydrocarbon A	64742-95-6	10.0 @ 25°C	10 mg/m³-A None-O
Aromatic hydrocarbon B	64742-94-5	10.0	None-A,O
Barium Sulfate	7727-43-7	None	10 mg/m³-A Total Dust 15 mg/m³-O Total Dust 5 mg/m³-O Dust, 8 hr Resp 10 mg/m³-D 8 hr TWA
Beta-(3-(2H-benzotriazol-2-yl)-4-hydroxy-5-tertbutylphenyl) propionate	104810-47-1	Unknown	None-A,O
Butyl acetate	123-86-4	8.0	150 ppm-A,O 200 ppm-A 15 min (STEL)
C.I. Pigment Red 179	5521-31-3	None	None-A,O
Carbon black	1333-86-4	None	3.5 mg/m³-A,O 0.5 mg/m³-D
Cellulose acetate butyrate	9004-36-8	None	None-A,O
Dibutyl tin dilaurate	77-58-7	0.2 @ 60°C	0.1 mg/m³-A Skin as Sn 0.1 mg/m³-O as Sn
Diketopyrrolopyrrol red pigment	Not Available	None	None-A,O
Dioxazine carbazole pigment	4378-61-4	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Ethyl acetate	141-78-6	76.0	400 ppm-A,O
Ethyl 3-ethoxy propionate	763-69-9	Unknown	None-A,O
Ethylbenzene	100-41-4	7.0	100 ppm-A,O 125 ppm-A 15 min (STEL) 25 ppm-D 8&12 hr
Ethylene glycol monobutyl ether acetate	112-07-2	0.3	20 ppm -D Skin None-A,O
Ferric hexacyanoferrate pigment	14038-43-8	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Heptane	142-82-5	40.0	400 ppm-A 500 ppm-O 500 ppm -A 15 min (STEL)
Hexyl acetate isomers	88230-35-7	0.7	50 ppm-A Hexyl Acet None-O
Iron oxide	1309-37-1	None	5 mg/m³-A 10 mg/m³-O
Isoindolinone pigment	36888-99-0	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Isopropyl alcohol	67-63-0	33.0	400 ppm-A,O 500 ppm-A 15 min (STEL) 400 ppm-D 8&12 hr
Lead chromate	18454-12-1	None	50 µg/m³-A,O Pb 12 µg/m³-A Cr 1 mg/m³-O Cr Ceiling

Lead chromate molybdate 12656-86-8	None	50 µg/m³-A, O Pb 12 µg/m³-A Cr 1 mg/m³-O Cr Ceiling
Medium mineral spirits 64742-88-7	None	100 ppm-D None-A, O
Methyl amyl ketone 110-43-0	2.2	50 ppm-A 100 ppm-O
Methyl ethyl ketone 78-93-3	71.0	200 ppm-A, O 300 ppm-A 15 min(STEL) 200 ppm-D 8&12 hr TWA 300 ppm-D 15 min TWA
Methyl isobutyl ketone 108-10-1	15.0	50 ppm-A 100 ppm-O 75 ppm-A 15 min(STEL)
Mixed dibasic esters Not Available	0.2	10 mg/m³-D None-A, O
Monoazo red pigment 12236-62-3	None	10 mg/m³-A None-O
n-Butyl Alcohol 71-36-3	5.5	50 ppm - A Ceiling Skin 100 ppm - O 25 ppm-D 50 ppm-D 15 min TWA
Nickel azo complex Not Available	None	50 µg/m³-A Ni 1 mg/m³-O Ni
Nickel oxide 1313-99-1	None	1 mg/m³-A, O Ni
Nickel, Antimony, Titanium Yellow Pigment 8007-18-9	None	0.5 mg/m³-A, O Sb 1 mg/m³-A, O Ni
Organoclay 68911-87-5	None	None-A, O
Oxo-octyl acetate 108419-32-5	1.0 @ 25°C	50 ppm-S None-A, O
Phthalocyanine blue pigment 147-14-8	None	1 mg/m³-A, O CU, 8 hr
Phthalocyanine green pigment 1328-53-6	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Polyester resin A 71010-58-7	None	None-A, O
Polyester resin B 65086-73-9	None	None-A, O
Polyisocyanate Not Available	None	None-A, O
Polyol 68551-65-5	Unknown	None-A, O
Primary amyl acetate 628-63-7	4.0	100 ppm-A, O
Propylene glycol monomethyl ether acetate 108-65-6	3.7	None-A, O 10 ppm-D
Quinacridone pigment 1047-16-1	None	10 mg/m³-A 15 mg/m³-O 5 mg/m³-O Resp
Quinophthalone yellow pigment 30125-47-4	None	10 mg/m³-A None - O
Silicone resin 9016-00-6	None	None-A, O
Stoddard solvent 8052-41-3	None	100 ppm-A, O
Titanium dioxide 13463-67-7	None	10 mg/m³-A, O 5 mg/m³-O Resp 10 mg/m³-D
Toluene 108-88-3	36.7	50 ppm-A Skin 200 ppm-O 300 ppm-O Ceiling 500 ppm-O 10 min MAX 50 ppm-D 8&12 hr TWA
VM&P Naphtha 64742-89-8	15.0 @ 37.8°C	300 ppm-A, O 400 ppm-O 15 min(STEL)

Xylene 1330-20-7	7.0 @ 25°C	100 ppm-A, O 150 ppm-A 15 min(STEL) 100 ppm-D 8&12 hr 150 ppm-D 15 min TWA
1,2,4-Trimethyl benzene 95-63-6	7.0 @ 44.4°C	25 ppm-A, O
1,6 hexamethylene diisocyanate 822-06-0	Unknown	5.0 ppb -A None-O
2(2-hydroxy-3,5-diteramylphenyl) benzotriazole 25973-55-1	Unknown	None-A, O
2,4 Pentanedione 123-54-6	7.0	10 ppm-D None-A, O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

### Section III - Physical Data

**Evaporation rate:** Less than ether  
**Vapor Density:** Heavier than air  
**Solubility in water:** Miscible  
**Percent volatile by volume:** 12.6%-100.0%  
**Percent volatile by weight:** 9.96%- 100.0%  
**Boiling range:** 54°C- 900°C/ 129.2°F- 1652°F  
**Gallon weight:** 6.89- 15.58 lb/gallon

### Section IV - Fire and Explosion Data

**Flash point (closed cup):** See Section X for exact values.  
**Flammable limits:** 0.8%- 11.5%  
**Extinguishing media:** Universal aqueous film-forming foam, carbon dioxide, dry chemical.  
**Special fire fighting procedures:** Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.  
**Unusual fire & explosion hazards:** When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

### Section V - Health Hazard Data

**General Effects:**  
**Ingestion:** Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**  
**Inhalation:** May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.  
**Skin or eye contact:** May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.  
**Specific Effects:**  
**Acrylic Polymer-N & O Contact** may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. **Aliphatic Polyisocyanate Polymer & Aliphatic Polyisocyanate Resin & Aliphatic Polymeric Isocyanate** Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. May cause eye irritation with discomfort, tearing, or blurred vision. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Aromatic**

**Hydrocarbon-A & B** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Butyl Acetate** May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Carbon Black** Is an IARC, NTP or OSHA carcinogen. **Dibutyl Tin Dilaurate** Causes eye corrosion and permanent injury. Contact may cause skin burns. Can be absorbed through the skin in harmful amounts. **Ethyl Acetate** Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. **Ethyl 3-Ethoxy Propionate** Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Ethylbenzene** Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. **Ethylene Glycol Monobutyl Ether Acetate** Can be absorbed through the skin in harmful amounts. May destroy red blood cells. May cause abnormal kidney function. **Heptane** Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Isopropyl Alcohol** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Lead Chromate & Lead Chromate Molybdate** Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula:  $\text{limit (in ug/m}^3\text{)} = 400/\text{hours worked in the day}$ . Is an IARC, NTP or OSHA carcinogen. **WARNING:** This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm. **Medium Mineral Spirits** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Methyl Amyl Ketone** Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. **Methyl Ethyl Ketone** High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. **Methyl Isobutyl Ketone** Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. **Mixed Dibasic Esters** High airborne levels in rats have shown mild injury to the olfactory region of the nose. **N-Butyl Alcohol** Liquid splashes in the eye may result in chemical burns. May cause abnormal blood forming function with anemia. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. **Nickel Azo Complex** Repeated exposure may cause allergic skin rash, itching, swelling. Is an IARC, NTP or OSHA carcinogen. **WARNING:** This chemical is known to the State of California to cause cancer. **Nickel Oxide & Nickel, Antimony, Titanium Yellow Pigment** Is an IARC, NTP or OSHA carcinogen. The components of this pigment are combined chemically into a uniform substance which does not necessarily reflect the properties of the components metals or oxides. **WARNING:** This chemical is known to the State of California to cause cancer. **Primary Amyl Acetate** Recurrent overexposure may result in liver and kidney injury. **Propylene Glycol Monomethyl Ether Acetate** May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. **Quinophthalone Yellow Pigment** Contact may cause skin irritation with discomfort or rash. Ingestion may result in gastric disturbances. **Titanium Dioxide** In a lifetime inhalation test, lung cancers were found in some rats exposed to

250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. **Toluene** Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm. **VM&P Naphtha** Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. **1,6-Hexamethylene Diisocyanate** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **2,4-Pentanedione** Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system, and the red blood cell forming system. No effect was seen at 100 ppm. The odor is disagreeable at a few ppm. Ingestion may result in gastric disturbances.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** Water, amines, metal salts

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:**

Ventilate area. Remove sources of ignition. Do not breathe vapors. Do not get in eyes and on skin. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are:

20% Surfactant (Tergitol TMN 10) and 80% Water OR

0-10% Ammonia, 2-5% Detergent and Water (balance)

Confine and remove with inert absorbent. Pressure can be generated. Do not seal container. After 48 hours, material may be sealed and disposed of properly.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information.

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE

### INGREDIENTS (See Section II)

**EZ-3460S** acrylic polymer-b, acrylic polymer-h, butyl acetate, ethylene glycol monobutyl ether acetate (3%), methyl amyl ketone, mixed dibasic esters, oxo-octyl acetate, toluene (5%), xylene (0-1%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole

GAL WT: 8.14 WT PCT SOLIDS: 53.35 VOL PCT SOLIDS: 47.12  
SOLVENT DENSITY: 7.18 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**EZ-3461S** aliphatic polyisocyanate polymer, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate (4%)

GAL WT: 8.70 WT PCT SOLIDS: 75.16 VOL PCT SOLIDS: 71.15  
SOLVENT DENSITY: 7.49 VOC LE: 2.2 VOCAP: 2.2 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**V-1955** aliphatic polymeric isocyanate, heptane, methyl amyl ketone, methyl ethyl ketone (9%), toluene (15%), 1,6-hexamethylene diisocyanate (<0.2%)

GAL WT: 8.36 WT PCT SOLIDS: 63.70 VOL PCT SOLIDS: 55.19  
SOLVENT DENSITY: 6.77 VOC LE: 3.0 VOCAP: 3.0 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**1280S** acrylic polymer-o, butyl acetate, ethyl acetate, ethylbenzene (8-9%), methyl isobutyl ketone (3%), propylene glycol monomethyl ether acetate, toluene (1%), xylene (25-26%)

GAL WT: 7.96 WT PCT SOLIDS: 35.97 VOL PCT SOLIDS: 30.71  
SOLVENT DENSITY: 7.36 VOC LE: 5.1 VOCAP: 5.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**1282S** aliphatic polyisocyanate resin, aromatic hydrocarbon-a, butyl acetate, ethylbenzene (3-8%), xylene (22-27%), 1,6-hexamethylene diisocyanate (<0.2%)

GAL WT: 8.62 WT PCT SOLIDS: 62.98 VOL PCT SOLIDS: 55.67  
SOLVENT DENSITY: 7.20 VOC LE: 3.2 VOCAP: 3.2 H: 3 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**1285S** hexyl acetate isomers, propylene glycol monomethyl ether acetate,

GAL WT: 7.78 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.78 VOC LE: 7.8 VOCAP: 7.8 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**193S** aliphatic polyisocyanate resin, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate (4%), 1,6-hexamethylene diisocyanate (<0.2%)

GAL WT: 9.01 WT PCT SOLIDS: 74.98 VOL PCT SOLIDS: 69.92  
SOLVENT DENSITY: 7.49 VOC LE: 2.3 VOCAP: 2.3 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**194S** aliphatic polyisocyanate resin, butyl acetate, ethyl acetate, oxo-octyl acetate, 1,6-hexamethylene diisocyanate (<0.2%)

GAL WT: 8.97 WT PCT SOLIDS: 75.00 VOL PCT SOLIDS: 69.66  
SOLVENT DENSITY: 7.39 VOC LE: 2.2 VOCAP: 2.2 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**3400S** acrylic polymer-b, acrylic polymer-i, butyl acetate, ethylene glycol monobutyl ether acetate (5%), methyl amyl ketone, methyl ethyl ketone (6%), mixed dibasic esters, toluene (6%), xylene (0-

1%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
GAL WT: 8.08 WT PCT SOLIDS: 53.45 VOL PCT SOLIDS: 46.80  
SOLVENT DENSITY: 7.07 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**3401S** acrylic polymer-f, aromatic hydrocarbon-a, butyl acetate, ethyl 3-ethoxy propionate, ethylbenzene (0-1%), ethylene glycol monobutyl ether acetate (11%), methyl ethyl ketone (36%), propylene glycol monomethyl ether acetate, toluene (10%), xylene (3-4%), 1,2,4-trimethyl benzene (0-2%)

GAL WT: 7.25 WT PCT SOLIDS: 3.55 VOL PCT SOLIDS: 2.74  
SOLVENT DENSITY: 7.19 VOC LE: 7.0 VOCAP: 7.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**3440S** acrylic polymer-b, acrylic polymer-i, butyl acetate, ethylene glycol monobutyl ether acetate (3%), methyl amyl ketone, methyl ethyl ketone (3%), mixed dibasic esters, toluene (5%), xylene (0-1%), 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole

GAL WT: 8.12 WT PCT SOLIDS: 53.36 VOL PCT SOLIDS: 47.03  
SOLVENT DENSITY: 7.15 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**3480S** acetone, acrylic polymer-a, acrylic polymer-i, acrylic polymer-m, isopropyl alcohol, medium mineral spirits, methyl amyl ketone, mixed dibasic esters, oxo-octyl acetate, 2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole

GAL WT: 7.98 WT PCT SOLIDS: 52.38 VOL PCT SOLIDS: 45.12  
SOLVENT DENSITY: 6.92 VOC LE: 3.7 VOCAP: 3.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**389S** dibutyl tin dilaurate (1%), 2,4-pentanedione,

GAL WT: 8.13 WT PCT SOLIDS: 1.00 VOL PCT SOLIDS: 0.94  
SOLVENT DENSITY: 8.13 VOC LE: 8.0 VOCAP: 8.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**501H** acrylic polymer-a, acrylic polymer-b, butyl acetate, carbon black, methyl amyl ketone, xylene (0-1%)

GAL WT: 8.22 WT PCT SOLIDS: 52.25 VOL PCT SOLIDS: 45.01  
SOLVENT DENSITY: 7.14 VOC LE: 3.9 VOCAP: 3.9 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**502H** acrylic polymer-k, butyl acetate, iron oxide, medium mineral spirits, propylene glycol monomethyl ether acetate

GAL WT: 14.19 WT PCT SOLIDS: 71.79 VOL PCT SOLIDS: 46.25  
SOLVENT DENSITY: 7.45 VOC LE: 4.0 VOCAP: 4.0 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**503H** acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (56%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (1-2%)

GAL WT: 15.58 WT PCT SOLIDS: 75.83 VOL PCT SOLIDS: 50.57  
SOLVENT DENSITY: 7.62 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**504H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-2%), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, xylene (5-6%)

GAL WT: 8.54 WT PCT SOLIDS: 49.94 VOL PCT SOLIDS: 43.38  
SOLVENT DENSITY: 7.55 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**505H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, carbon black, ethylbenzene (0-2%), methyl amyl ketone, toluene (2%), xylene (5-6%)

GAL WT: 8.24 WT PCT SOLIDS: 48.82 VOL PCT SOLIDS: 41.56  
SOLVENT DENSITY: 7.22 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**506H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-1%), methyl amyl ketone, phthalocyanine green pigment, toluene (1%), xylene (4-5%)

GAL WT: 8.22 WT PCT SOLIDS: 44.38 VOL PCT SOLIDS: 33.83  
SOLVENT DENSITY: 6.91 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**507H** acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-1%), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, toluene (1%), xylene (2-3%)

GAL WT: 8.58 WT PCT SOLIDS: 48.61 VOL PCT SOLIDS: 41.52  
SOLVENT DENSITY: 7.54 VOC LE: 4.4 VOCAP: 4.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**509H** acrylic polymer-a, acrylic polymer-b, butyl acetate, diketopyrrolopyrrol red pigment, methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (0-1%)

GAL WT: 9.12 WT PCT SOLIDS: 53.23 VOL PCT SOLIDS: 44.66  
SOLVENT DENSITY: 7.71 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**510H** acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (58%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (1%)

GAL WT: 15.82 WT PCT SOLIDS: 76.29 VOL PCT SOLIDS: 50.99  
SOLVENT DENSITY: 7.65 VOC LE: 3.7 VOCAP: 3.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**511H** acrylic polymer-a, acrylic polymer-b, butyl acetate, lead chromate (56%), methyl amyl ketone, propylene glycol monomethyl

ether acetate, xylene (0-1%)

GAL WT: 15.50 WT PCT SOLIDS: 74.46 VOL PCT SOLIDS: 47.97  
SOLVENT DENSITY: 7.61 VOC LE: 4.0 VOCAP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

512H acrylic polymer-a, acrylic polymer-b, butyl acetate, ethylbenzene (0-1%), lead chromate molybdate (54%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (2%)

GAL WT: 15.00 WT PCT SOLIDS: 74.95 VOL PCT SOLIDS: 50.53  
SOLVENT DENSITY: 7.60 VOC LE: 3.8 VOCAP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

513H acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, ethylbenzene (0-1%), methyl amyl ketone, propylene glycol monomethyl ether acetate, quinacridone pigment, toluene (2%), xylene (1-2%)

GAL WT: 8.70 WT PCT SOLIDS: 42.59 VOL PCT SOLIDS: 35.33  
SOLVENT DENSITY: 7.72 VOC LE: 5.0 VOCAP: 5.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

514H acrylic polymer-a, acrylic polymer-b, acrylic polymer-n, butyl acetate, methyl amyl ketone, primary amyl acetate, quinacridone pigment, xylene (0-1%)

GAL WT: 8.45 WT PCT SOLIDS: 47.12 VOL PCT SOLIDS: 38.10  
SOLVENT DENSITY: 7.22 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

515H acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, iron oxide, methyl amyl ketone, propylene glycol monomethyl ether acetate, toluene (2%), xylene (0-1%)

GAL WT: 12.45 WT PCT SOLIDS: 66.39 VOL PCT SOLIDS: 45.20  
SOLVENT DENSITY: 7.64 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

516H acrylic polymer-a, acrylic polymer-b, butyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, xylene (0-1%)

GAL WT: 14.85 WT PCT SOLIDS: 77.54 VOL PCT SOLIDS: 55.55  
SOLVENT DENSITY: 7.50 VOC LE: 3.3 VOCAP: 3.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

517H acrylic polymer-a, acrylic polymer-b, butyl acetate, ethylbenzene (0-1%), ferric hexacyanoferrate (19%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (4-5%)

GAL WT: 8.93 WT PCT SOLIDS: 51.78 VOL PCT SOLIDS: 42.74  
SOLVENT DENSITY: 7.52 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

518H acrylic polymer-a, acrylic polymer-b, acrylic polymer-e, butyl acetate, dioxazine carbozole pigment, ethylbenzene (0-2%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (7-9%)

GAL WT: 8.40 WT PCT SOLIDS: 52.90 VOL PCT SOLIDS: 46.95  
SOLVENT DENSITY: 7.46 VOC LE: 4.0 VOCAP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

519H acrylic polymer-a, acrylic polymer-b, anthraquinone pigment, butyl acetate, ethylbenzene (1-3%), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (8-10%)

GAL WT: 8.27 WT PCT SOLIDS: 48.57 VOL PCT SOLIDS: 42.10  
SOLVENT DENSITY: 7.35 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

520H acrylic polymer-j, aluminum (10%), aromatic hydrocarbon-a, ethylbenzene (0-1%), medium mineral spirits, n-butyl alcohol (3%), propylene glycol monomethyl ether acetate, xylene (4-5%)

GAL WT: 8.63 WT PCT SOLIDS: 47.73 VOL PCT SOLIDS: 39.26  
SOLVENT DENSITY: 7.43 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

522H acrylic polymer-j, aluminum (25%), aromatic hydrocarbon-a, butyl acetate, ethylbenzene (0-1%), medium mineral spirits, n-butyl alcohol (2%), propylene glycol monomethyl ether acetate, stoddard solvent, xylene (4-5%)

GAL WT: 9.30 WT PCT SOLIDS: 51.04 VOL PCT SOLIDS: 38.83  
SOLVENT DENSITY: 7.44 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

524H acrylic polymer-j, butyl acetate, isopropyl alcohol, medium mineral spirits, n-butyl alcohol (8%), nickel azo complex (8%), propylene glycol monomethyl ether acetate, toluene (2-3%), vm&p naphtha

GAL WT: 8.25 WT PCT SOLIDS: 51.68 VOL PCT SOLIDS: 44.42  
SOLVENT DENSITY: 7.17 VOC LE: 4.0 VOCAP: 4.0 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

525H acrylic polymer-a, acrylic polymer-b, butyl acetate, ethylbenzene (0-1%), iron oxide, methyl amyl ketone, primary amyl acetate, xylene (3-4%)

GAL WT: 9.54 WT PCT SOLIDS: 52.70 VOL PCT SOLIDS: 37.38  
SOLVENT DENSITY: 7.21 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

526H acrylic polymer-j, butyl acetate, dioxazine carbozole pigment, medium mineral spirits, n-butyl alcohol (4%), propylene glycol monomethyl ether acetate

GAL WT: 8.31 WT PCT SOLIDS: 50.04 VOL PCT SOLIDS: 44.08  
SOLVENT DENSITY: 7.42 VOC LE: 4.2 VOCAP: 4.2 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

527H acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, barium sulfate, butyl acetate, c.i. pigment red 179, methyl amyl ketone, propylene glycol monomethyl ether acetate, toluene (3%), xylene (0-1%)

GAL WT: 8.81 WT PCT SOLIDS: 44.05 VOL PCT SOLIDS: 36.10  
SOLVENT DENSITY: 7.71 VOC LE: 4.9 VOCAP: 4.9 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

528H acrylic polymer-a, acrylic polymer-n, butyl acetate, methyl amyl ketone, monoazo pigment, propylene glycol monomethyl ether acetate

GAL WT: 9.07 WT PCT SOLIDS: 48.94 VOL PCT SOLIDS: 40.65  
SOLVENT DENSITY: 7.80 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

529H acrylic polymer-a, acrylic polymer-b, butyl acetate, isoindolinone pigment, methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (1-2%)

GAL WT: 9.43 WT PCT SOLIDS: 51.47 VOL PCT SOLIDS: 40.48  
SOLVENT DENSITY: 7.69 VOC LE: 4.6 VOCAP: 4.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

538H acrylic polymer-a, acrylic polymer-b, acrylic polymer-c, butyl acetate, methyl amyl ketone, nickel oxide (3%), nickel, antimony, titanium (54%), propylene glycol monomethyl ether acetate, toluene (1%), xylene (0-1%)

GAL WT: 14.80 WT PCT SOLIDS: 72.16 VOL PCT SOLIDS: 46.28  
SOLVENT DENSITY: 7.67 VOC LE: 4.1 VOCAP: 4.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

542H acrylic polymer-a, acrylic polymer-b, ethylbenzene (0-1%), methyl amyl ketone, primary amyl acetate, quinacridone pigment, xylene (2%)

GAL WT: 8.29 WT PCT SOLIDS: 48.81 VOL PCT SOLIDS: 40.89  
SOLVENT DENSITY: 7.18 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

545H acrylic polymer-a, acrylic polymer-b, butyl acetate, ethylbenzene (0-2%), iron oxide, methyl amyl ketone, primary amyl acetate, xylene (5-6%)

GAL WT: 9.24 WT PCT SOLIDS: 54.31 VOL PCT SOLIDS: 41.41  
SOLVENT DENSITY: 7.21 VOC LE: 4.2 VOCAP: 4.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

549H acrylic polymer-a, acrylic polymer-b, aromatic hydrocarbon-b, butyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene (0-1%)

GAL WT: 9.98 WT PCT SOLIDS: 56.60 VOL PCT SOLIDS: 42.48  
SOLVENT DENSITY: 7.53 VOC LE: 4.3 VOCAP: 4.3 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

551H acrylic polymer-a, acrylic polymer-b, butyl acetate, methyl amyl ketone, propylene glycol monomethyl ether acetate, quinophthalone yellow pigment, xylene (1-2%)

GAL WT: 9.42 WT PCT SOLIDS: 52.75 VOL PCT SOLIDS: 42.06  
SOLVENT DENSITY: 7.68 VOC LE: 4.5 VOCAP: 4.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

569H acrylic polymer-a, acrylic polymer-b, acrylic polymer-n, butyl acetate, methyl amyl ketone, monoazo pigment, propylene glycol monomethyl ether acetate, xylene (1-2%)

GAL WT: 9.30 WT PCT SOLIDS: 56.44 VOL PCT SOLIDS: 47.26  
SOLVENT DENSITY: 7.68 VOC LE: 4.1 VOCAP: 4.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

572H acrylic polymer-l, cellulose acetate butyrate, ethyl acetate, propylene glycol monomethyl ether acetate, toluene (4-5%), vm&p naphtha, xylene (0-1%)

GAL WT: 8.13 WT PCT SOLIDS: 35.48 VOL PCT SOLIDS: 30.16  
SOLVENT DENSITY: 7.51 VOC LE: 5.2 VOCAP: 5.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

576H acrylic polymer-m, butyl acetate, ethylbenzene (0-1%), heptane, medium mineral spirits, n-butyl alcohol (14%), xylene (1-2%), 1,2,4-trimethyl benzene (0-1%)

GAL WT: 7.49 WT PCT SOLIDS: 45.00 VOL PCT SOLIDS: 35.11  
SOLVENT DENSITY: 6.35 VOC LE: 4.1 VOCAP: 4.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

577H acrylic polymer-b, acrylic polymer-d, butyl acetate, ethyl acetate, ethylbenzene (0-1%), ethylene glycol monobutyl ether acetate (12%), methyl amyl ketone, methyl ethyl ketone (3%), organoclay, polyester resin-a, xylene (4-5%)

GAL WT: 8.02 WT PCT SOLIDS: 32.78 VOL PCT SOLIDS: 26.95  
SOLVENT DENSITY: 7.38 VOC LE: 5.4 VOCAP: 5.4 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

590H acrylic polymer-j, aluminum (23%), aromatic hydrocarbon-a, butyl acetate, ethylbenzene (0-1%), medium mineral spirits, n-butyl alcohol (2%), propylene glycol monomethyl ether acetate, xylene (4-5%)

GAL WT: 9.20 WT PCT SOLIDS: 49.24 VOL PCT SOLIDS: 35.14  
SOLVENT DENSITY: 7.20 VOC LE: 4.7 VOCAP: 4.7 H: 2 F: 3  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

759S ethylbenzene (3%), silicone resin, xylene (13%), 2,4-pentanedione

GAL WT: 8.02 WT PCT SOLIDS: 4.11 VOL PCT SOLIDS: 3.65  
SOLVENT DENSITY: 7.98 VOC LE: 7.7 VOCAP: 7.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**8685S** ethyl acetate, ethylene glycol monobutyl ether acetate (40%\*), methyl ethyl ketone (10%\*),  
GAL WT: 7.51 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.51 VOC LE: 7.5 VOCAP: 7.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8940S** beta-(3-(2h-benzotriazol-2-yl)-4-hydroxy-5-tert, ethyl acetate, methyl amyl ketone, polyester resin-b  
GAL WT: 8.71 WT PCT SOLIDS: 90.04 VOL PCT SOLIDS: 87.39  
SOLVENT DENSITY: 6.88 VOC LE: 0.9 VOCAP: 0.9 H: 2 F: 2  
R: 0 FLASH PT: BETWEEN 100 - 140 F (CC) OSHA STORAGE: II

**8950S** ethyl acetate, ethyl 3-ethoxy propionate, ethylbenzene (0-1%\*), methyl ethyl ketone (4%\*), polyester resin-a, xylene (2-3%\*)  
GAL WT: 9.28 WT PCT SOLIDS: 80.95 VOL PCT SOLIDS: 75.69  
SOLVENT DENSITY: 7.27 VOC LE: 1.8 VOCAP: 1.8 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8960S** acrylic polymer-a, amorphous silica, beta-(3-(2h-benzotriazol-2-yl)-4-hydroxy-5-tert, ethyl acetate, isopropyl alcohol, methyl amyl ketone, polyol  
GAL WT: 7.99 WT PCT SOLIDS: 67.20 VOL PCT SOLIDS: 61.06  
SOLVENT DENSITY: 6.73 VOC LE: 2.6 VOCAP: 2.6 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8970S** ethyl 3-ethoxy propionate, methyl ethyl ketone (78%\*),  
GAL WT: 6.89 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 6.89 VOC LE: 6.9 VOCAP: 6.9 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8975S** acrylic polymer-g, ethylbenzene (0-1%\*), hexyl acetate isomers, n-butyl alcohol (5%\*), toluene (3-4%\*), vm&p naphtha, xylene (0-2%\*)  
GAL WT: 8.21 WT PCT SOLIDS: 61.50 VOL PCT SOLIDS: 51.67  
SOLVENT DENSITY: 6.54 VOC LE: 3.2 VOCAP: 3.2 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**8989S** dibutyl tin dilaurate (5%\*), 2,4-pentanedione,  
GAL WT: 8.15 WT PCT SOLIDS: 4.99 VOL PCT SOLIDS: 4.67  
SOLVENT DENSITY: 8.12 VOC LE: 7.7 VOCAP: 7.7 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

### Product Manager - Refinish Sales

Prepared by D. G. Detweiler



# MATERIAL SAFETY DATA SHEET

## Section I Product Identification

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Date: 1999-01-07

Emergency Telephone No.:

CHEMTREC - day or night 800-424-9300

SPIES HECKER Inc.

55 Sea Lane • Farmingdale, NY 11735

(516) 777-7100

Product Class: Polyurethane resin

Trade Name: Parmahyd Mixing Colour Series 285  
WS 861 bluish green pearl

Art.-No. 381 1881 3

TSCA INFORMATION : All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

## Section II - Ingredients

Ingredient	CAS-No.	Percent	TLVs 1998 ACGIH		Additional Information
			TWA (ppm/mg/m <sup>3</sup> )	STEL/C (ppm/mg/m <sup>3</sup> )	
Water	7732-18-6	61.9	—	—	—
Misc	12001-25-2	6.1	3 mg/m <sup>3</sup>	—	—
n-Butanol	71-36-3	4.5	—	C 50 ppm	sara
2-Butoxyethanol	111-76-2	4.3	25 ppm	—	—
Methyl pyrrolidone	872-50-4	1.6	—	—	sara
2 - Dimethylamino ethanol	106-01-0	0.1	—	—	—
Solvents, total impurities	proprietary	0.3	n.e.	n.e.	—
Pigments	proprietary	5.8	n.e.	n.e.	—
Filmformers, additives	proprietary	15.0	n.e.	n.e.	—

## Section III - Physical Data

Boiling Range	100 - 202	Solubility in Water:	miscible
Vapor Density (Air=1)	>1	Vapor pressure:	0.30 hPa
Evaporation Rate (ether=1)	360	V.O.C. coating:	2.97 lbs/gal 356 g/l
Volatile Volume	81%	V.O.C. material:	0.96 lbs/gal 115 g/l
Specific Gravity (H <sub>2</sub> O=1)	1.10	HMIS (NFPA) rating (health - fire - reactivity)	1 - 2 - 0
Appearance and Odor	liquid, green, typical		

## Section IV - Fire and Explosion Hazard Data

Flammability Classification:	OSHA:	Class II	Flash Point:	54°C	LEL 23.0 Vol %
	DOT:	Flammable Liquid			
	UN-NO.:	not restricted			
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> "Alcohol" Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>		
	<input checked="" type="checkbox"/> Dry Chemical	<input type="checkbox"/> Water Fog	<input type="checkbox"/> Other		

### Unusual Fire and Explosion Hazards:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces.

### Special Firefighting Procedures:

Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect firefighters from any hazardous decomposition products (see Sect.VI) full protective equipment, including self-contained breathing apparatus, is recommended.

sara: ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.15 C.

hazp: hazardous air pollutant / CAA Sec. 112(b)

prop: ingredient known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)

n.e. = not applicable

n.e. = not established

Date: 1999-01-07

SPIES HECKER GmbH

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Art. No. 361 18 1 3

## Section V - Health Hazard Data

**Effects of Overexposure:** Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

**Skin or eye contact:** Primary irritation

Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

**Medical Conditions prone to aggravation by exposure:** Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

**Primary Route(s) of entry:** ☒ Dermal ☒ Inhalation ☐ Ingestion

**Emergency and First Aid Procedures:** Call a physician

Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.

Eye contact: Flush immediately with plenty of water for at least 15 minutes.

Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Keep warm and quiet.

## Section VI - Reactivity Data

**Stability** ☐ Unstable ☒ Stable

**Hazardous Polymerization** ☐ May occur ☒ Will not occur

**Hazardous Decomposition Products** May produce hazardous fumes when heated to decomposition.

**Conditions to avoid** Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxides

**Incompatibility (materials to avoid):** Unknown

**Photochemically reactive solvents:** No

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Remove all sources of ignition (flames, hot surfaces, and sparks)

Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools

**Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

Do not incinerate closed containers.

## Section VIII - Safe Handling and use information

**Respiratory Protection:** Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

**Ventilation:** Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

**Protective Gloves:** Impervious gloves required for prolonged or repeated contact.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other Protective Equipment:** Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

**Hygienic Practices:** Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

**Other Precautions:** Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time. Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



# MATERIAL SAFETY DATA SHEET

## Section I Product Identification

Page 1 of 2

Date: 1999-01-11

Emergency Telephone No.:  
CHEMTREC - day or night 800-424-9300

SPIES HECKER Inc.  
55 Sea Lane • Farmingdale, NY 11735  
(516) 777-7100

Product Class: Polyurethane resin

Trade Name: Fermahyd Mixing Colour Series 280  
WB 848 bluish green

Art.-No. 360 1848 1

TSCA INFORMATION: All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

## Section II - Ingredients

Ingredient	CAS-No.	Percent	TLVs 1998 ACGIH		Additional Information
			TWA (ppm/mg/m³)	STEL/C (ppm/mg/m³)	
Water	7732-18-6	64.6	—	—	—
2-Butoxyethanol	111-76-2	4.2	25 ppm	—	—
n-Butanol	71-36-3	2.3	—	C 50 ppm	sara
Methyl pyrrolidone	872-50-4	1.5	—	—	sara
2 - Dimethylamino ethanol	106-01-0	0.3	—	—	—
Solvents, total impurities	proprietary	0.9	n.e.	n.e.	—
Pigments	proprietary	5.0	n.e.	n.e.	—
Fillformers, additives	proprietary	21.2	n.e.	n.e.	—

## Section III - Physical Data

Boiling Range	100 - 202°C	Solubility in Water:	miscible	
Vapor Density (Air=1)	>1	Vapor pressure:	0.20 hPa	
Evaporation Rate (ether=1)	360	V.O.C. coating:	2.29 lbs/gal	275 g
Volatile Volume	77%	V.O.C. material:	0.76 lbs/gal	91g/
Specific Gravity (H <sub>2</sub> O=1)	1.03	HMIS (NFPA) rating (health - fire - reactivity)		1 - 2 0
Appearance and Odor	liquid, blue, typical			

## Section IV - Fire and Explosion Hazard Data

Flammability Classification:	OSHA: Class III A	Flash Point:	65°C	LEL: 2.4 Vol %
	DOT: Flammable Liquid			
	UN-NO.: not restricted			
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> "Alcohol" Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>	
	<input checked="" type="checkbox"/> Dry Chemical	<input type="checkbox"/> Water Fog	<input type="checkbox"/> Other	

### Unusual Fire and Explosion Hazards:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces.

### Special Firefighting Procedures:

Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect firefighters from any hazardous decomposition products (see Sect.VI) full protective equipment, including self-contained breathing apparatus, is recommended.

sara: Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.35 C.

haps: hazardous air pollutant / CAA Sec. 112(c)

prop: Ingredient known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)

n.a. = not applicable

n.e. = not established

V118 / 2192.7 / 05 / 020

Date: 1999-01-11

SPIES HECKER GmbH

Page 2 of 2

Art. No. 360 18-8 1

## Section V - Health Hazard Data

**Effects of Overexposure:** Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

**Skin or eye contact:** Primary irritation

Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

**Medical Conditions prone to aggravation by exposure:** Do not use this product if you have chronic (long-term) lung or heart problems or if you have ever had a reaction to the ingredients stated in section II.

**Primary Route(s) of entry:** ☒ Dermal ☒ Inhalation ☐ Ingestion

**Emergency and First Aid Procedures :** Call a physician

**Inhalation:** Remove from exposure to fresh air. If not breathing give artificial respiration.  
**Eye contact:** Flush immediately with plenty of water for at least 15 minutes.  
**Skin contact:** Remove contaminated clothing. Wash immediately with plenty of soap and water.  
**Ingestion :** Do not induce vomiting. Keep warm and quiet.

## Section VI - Reactivity Data

**Stability** ☐ Unstable ☒ Stable

**Hazardous Polymerization** ☐ May occur ☒ Will not occur

**Hazardous Decomposition Products** May produce hazardous fumes when heated to decomposition.  
Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxides

**Conditions to avoid** Unknown

**Incompatibility (materials to avoid):** Unknown

**Photochemically reactive solvents:** No

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Remove all sources of ignition (flames, hot surfaces, and sparks)  
Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools

**Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.  
Do not incinerate closed containers.

## Section VIII - Safe Handling and use information

**Respiratory Protection:** Wear NIOSH approved respirator for organic vapors and paint, laquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

**Ventilation:** Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

**Protective Gloves:** Impervious gloves required for prolonged or repeated contact.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other Protective Equipment:** Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

**Hygienic Practices:** Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

**Other Precautions:** Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time. Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

L 115/21902.7/05/000



# MATERIAL SAFETY DATA SHEET

## Section I Product Identification

Page 1 of 2

Date: 1997-12-03

Emergency Telephone No.:  
CHEMTREC - day or night 800-424-9300

SPIES HECKER Inc.  
55 Sea Lane • Farmingdale, NY 11735  
(516) 777-7100

Product Class: Polyacrylic resin

Trade Name: Permasolid HS Clear Coat 8030

Art.-No. 291 8030 B

TSCA INFORMATION: All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

## Section II - Ingredients

Ingredient	CAS-No.	Percent	Occupational Exposure Limits		Vapor Pressure hPa/20°C
			TLV	PEL	
Butyl acetate	123-85-4	2.6	150 ppm	150 ppm	13.00
Aromatic hydrocarbons mixture (C <sub>9</sub> - C <sub>12</sub> )	64742-95-6	20.1	n.e.	n.e.	3.00
Isobutyl alcohol	78-83-1		50 ppm	50 ppm	9.50
1,2,4-Trimethyl-Benzene*	95-63-6	10.9	n.e.	n.e.	n.e.
Ethoxypropyl acetate	98516-30-4	6.4	n.e.	n.e.	0.23
2 - Dimethylamino ethanol	108-01-0	0.5	n.e.	n.e.	6.12
Solvents, total impurities*	proprietary	0.6	n.e.	n.e.	n.e.
Filmformers, additives	proprietary	58.9	n.e.	n.e.	n.e.

## Section III - Physical Data

Boiling Range	124 - 178°C	Solubility in Water:	moderate	
Vapor Density (Air=1)	>1	Vapor pressure:	1.90 hPa	
Evaporation Rate (ether=1)	70	V.O.C. coating:	3.38 lbs/gal	405 g/l
Volatile Volume	47%	V.O.C. material:	3.38 lbs/gal	405 g/l
Specific Gravity (H <sub>2</sub> O=1)	0.89	HMIS (NFPA) rating (health - fire - reactivity)		1 - 2 - 0
Appearance and Odor	liquid, colorless, typical			

## Section IV - Fire and Explosion Hazard Data

Flammability Classification:	OSHA: Class II	Flash Point:	40°C	LEL 0.6 Vol %
	DOT: Combustible Liquid			
	UN-NO.: 1263			
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> "Alcohol" Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>	
	<input checked="" type="checkbox"/> Dry Chemical	<input type="checkbox"/> Water Fog	<input type="checkbox"/> Other	

### Unusual Fire and Explosion Hazards:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces.

### Special Firefighting Procedures:

Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect firefighters from any hazardous decomposition products (see Sect. VI) full protective equipment, including self-contained breathing apparatus, is recommended.

\* Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.15 C.

\* contains ingredient which is known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)

n.a. = not applicable

n.e. = not established

Date: 1997-12-03

SPIES HECKER GmbH

Page 2 of 2

Art. No.291 1030 9

## Section V - Health Hazard Data

**Effects of Overexposure:** Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

**Skin or eye contact:** Primary irritation

Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

**Medical Conditions prone to aggravation by exposure:** Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

**Primary Route(s) of entry:**

☒ Dermal☒ Inhalation☐ Ingestion

**Emergency and First Aid Procedures:** Call a physician

Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.

Eye contact: Flush immediately with plenty of water for at least 15 minutes.

Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Keep warm and quiet.

## Section VI - Reactivity Data

**Stability**

☐ Unstable☒ Stable

**Hazardous Polymerization**

☐ May occur☒ Will not occur

**Hazardous Decomposition Products**

May produce hazardous fumes when heated to decomposition.

Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxide.

**Conditions to avoid**

Unknown

**Incompatibility (materials to avoid):**

Unknown

**Photochemically reactive solvents:**

Yes

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Remove all sources of ignition (flames, hot surfaces and sparks).

Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools.

**Waste Disposal Method:**

Dispose in accordance with local, state, and federal regulations.

Do not incinerate closed containers.

## Section VIII - Safe Handling and use Information

**Respiratory Protection:**

Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

**Ventilation:**

Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

**Protective Gloves:**

Impervious gloves required for prolonged or repeated contact.

**Eye Protection:**

Use safety eyewear designed to protect against splash of liquids.

**Other Protective Equipment:**

Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

**Hygienic Practices:**

Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

**Other Precautions:**

Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time.

Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product.

Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

LV 116/887465 / 03/2000

# MATERIAL SAFETY DATA SHEET



## Section I Product Identification

Page 1 of 2

Date: 1997-12-02

Emergency Telephone No.:

CHEMTREC - day or night 800-424-9300

SPIES HECKER Inc.

55 Sea Lane • Farmingdale, NY 11735

(516) 777-7100

Product Class: Polyacrylate

Trade Name: Permahyd 1K Primer Surfacor 4100

Art.-No. 291 4100 1

TSCA INFORMATION: All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

## Section II - Ingredients

Ingredient	CAS-No.	Percent	Occupational Exposure Limits		Vapor Pressure hPa/20°C
			TLV	PEL	
Water	7732-18-5	33.4	n.e.	n.e.	23.37
2 - Butoxyethanol	111-76-2	6.4	25 ppm	25 ppm	0.90
Zinc phosphate*	7779-90-0	9.3	n.e.	n.e.	n.e.
Silica, Quartz*	14808-60-7	1.9	0.1 mg/m <sup>3</sup>	n.e.	n.e.
Solvents, total impurities	proprietary	0.2	n.e.	n.e.	n.e.
Pigments	proprietary	30.0	n.e.	n.e.	n.e.
Filmformers, additives	proprietary	18.8	n.e.	n.e.	n.e.

## Section III - Physical Data

Boiling Range	100 - 171°C	Solubility in Water:	miscible
Vapor Density (Air=1)	>1	Vapor pressure:	0.40 hPa
Evaporation Rate (ether=1)	163	V.O.C. coating:	1.48 lbs/gal
Volatile Volume	58%	V.O.C. material:	0.77 lbs/gal
Specific Gravity (H <sub>2</sub> O=1)	1.35	HMIS (NFPA) rating (health - fire - reactivity)	1 - 2 - 0
Appearance and Odor	liquid, beige, typical		

## Section IV - Fire and Explosion Hazard Data

Flammability Classification:	OSHA:	Class III A	Flash Point:	80°C	LEL 23.5 Vol %
	DOT:	combustible Liquid			
	UN-NO.:	not restricted			
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> "Alcohol" Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>		
	<input checked="" type="checkbox"/> Dry Chemical	<input type="checkbox"/> Water Fog	<input type="checkbox"/> Other		

Unusual Fire and Explosion Hazards:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces.

Special Firefighting Procedures:

Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect firefighters from any hazardous decomposition products (see Sect.VI) full protective equipment, including self-contained breathing apparatus, is recommended.

\* Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.31 C.

\* contains ingredient which is known to the State of California to cause cancer (California Proposition 65)

n.e. = not applicable

n.e. = not established

Date: 1997-12-02

SPIES HECKER GmbH

Page 2 of 2

Art. No. 29 4100 1

## Section V - Health Hazard Data

**Effects of Overexposure:** Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

**Skin or eye contact:** Primary irritation

Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

**Medical Conditions prone to aggravation by exposure:** Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

**Primary Route(s) of entry:**

☒ Dermal☒ Inhalation☐ Ingestion

**Emergency and First Aid Procedures:** Call a physician

Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.

Eye contact: Flush immediately with plenty of water for at least 15 minutes.

Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Keep warm and quiet.

## Section VI - Reactivity Data

**Stability**

☐ Unstable☒ Stable

**Hazardous Polymerization**

☐ May occur☒ Will not occur

**Hazardous Decomposition Products**

May produce hazardous fumes when heated to decomposition.

Fumes may contain carbon monoxide/carbon dioxide/nitrogen oxide:

Unknown

**Conditions to avoid**

**Incompatibility (materials to avoid):**

Unknown

**Photochemically reactive solvents:**

No

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Remove all sources of ignition (flames, hot surfaces, and sparks).

Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools.

**Waste Disposal Method:**

Dispose in accordance with local, state, and federal regulations.

Do not incinerate closed containers.

## Section VIII - Safe Handling and use Information

**Respiratory Protection:**

Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

**Ventilation:**

Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

**Protective Gloves:**

Impervious gloves required for prolonged or repeated contact.

**Eye Protection:**

Use safety eyewear designed to protect against splash of liquids.

**Other Protective Equipment**

Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

**Hygienic Practices:**

Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

**Other Precautions:**

Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time.

Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product.

Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

**SPIES  
HECKER**
**Section I Product Identification**

Page 1 of 2

Date: 1998-01-05

Emergency Telephone No.:  
CHEMTREC - day or night 800-424-9330

SPIES HECKER Inc.  
55 Sea Lane - Farmingdale, NY 11735  
(516) 777-7100

Product Class: Polyacrylic resin

Trade Name: Permasolid VHS Wet on Wet Surfacor 5190 Art.-No. 291 5190 2

**TSCA INFORMATION:** All ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

**Section II - Ingredients**

Ingredient	CAS-No.	Percent	Occupational Exposure Limits		Vapor Pressure hPa/20°C
			TLV	PEL	
Butyl acetate	123-86-4	7.3	150 ppm	150 ppm	13.00
Methoxypropyl acetate	108-65-6	2.8	n.e.	n.e.	5.30
Ethoxypropyl acetate	98516-30-4	1.9	n.e.	n.e.	2.30
Aromatic hydrocarbons mixture (C <sub>9</sub> - C <sub>12</sub> )	64742-96-6	1.2	n.e.	n.e.	3.00
1,2,4-Trimethyl-Benzene*	95-63-6	0.6	n.e.	n.e.	n.e.
Zinc phosphate*	7779-90-0	7.8	n.e.	n.e.	n.e.
Silica, Quartz*	14808-60-7	5.2	0.1 mg/m <sup>3</sup>	n.e.	n.e.
Solvents, total impurities*	proprietary	0.7	n.e.	n.e.	n.e.
Pigments	proprietary	55.0	n.e.	n.e.	n.e.
Filmformers, additives	proprietary	17.5	n.e.	n.e.	n.e.

**Section III - Physical Data**

Boiling Range	124 - 178°C	Solubility in Water:	moderate
Vapor Density (Air=1)	>1	Vapor pressure:	1.10 hPa
Evaporation Rate (ether=1)	70	V.O.C. coating:	2.42 lbs/gel 290 g/l
Volatile Volume	34%	V.O.C. material:	2.42 lbs/gel 290 g/l
Specific Gravity (H <sub>2</sub> O=1)	2.00	HMIS (NFPA) rating (health - fire - reactivity)	1 - 2 - 0
Appearance and Odor	liquid, beige, typical		

**Section IV - Fire and Explosion Hazard Data**

Flammability Classification:	OSHA:	Class I C	Flash Point:	23°C	LEL 0.6 Vol %
	DOT:	Flammable Liquid			
	UN-NO.:	1263			
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> "Alcohol" Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>		
	<input checked="" type="checkbox"/> Dry Chemical	<input type="checkbox"/> Water Fog	<input type="checkbox"/> Other		

Unusual Fire and Explosion Hazards:

Special Firefighting Procedures:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces. Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect firefighters from any hazardous decomposition products (see Sect.VI) full protective equipment, including self-contained breathing apparatus, is recommended.

\* Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 41 CFR 372.66 C.

\* contains ingredient which is known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)

n.e. = not applicable

n.e. = not established

Date: 1998-01-05

SPIES HECKER GmbH

Page 2 of 2

Art. No.291 3190 2

## Section V - Health Hazard Data

**Effects of Overexposure:** Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

**Skin or eye contact:** Primary irritation

Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

**Medical Conditions prone to aggravation by exposure:** Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

**Primary Route(s) of entry:** ☒ Dermal ☒ Inhalation ☐ Ingestion

**Emergency and First Aid Procedures:** Call a physician

Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.

Eye contact: Flush immediately with plenty of water for at least 15 minutes.

Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Keep warm and quiet.

## Section VI - Reactivity Data

**Stability** ☐ Unstable ☒ Stable

**Hazardous Polymerization** ☐ May occur ☒ Will not occur

**Hazardous Decomposition Products** May produce hazardous fumes when heated to decomposition.  
Fumes may contain carbon monoxide/carbon dioxide

**Conditions to avoid** Unknown

**Incompatibility (materials to avoid):** Unknown

**Photochemically reactive solvents:** No

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Remove all sources of ignition (flames, hot surfaces, and sparks).  
Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools.

**Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.  
Do not incinerate closed containers.

## Section VIII - Safe Handling and use Information

**Respiratory Protection:** Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

**Ventilation:** Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and PEL below stated limits.

**Protective Gloves:** Impervious gloves required for prolonged or repeated contact.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other Protective Equipment:** Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

**Hygienic Practices:** Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

**Other Precautions:** Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time. Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET



## Section I Product Identification

Page 1 of 2

Emergency Telephone No.:  
CHEMTREC - day or night 800-424-9300

SPIES HECKER Inc.  
55 Sea Lane • Farmingdale, NY 11735  
(516) 777-7100

Product Class: Polyacrylic - / Polyester resin

Trade Name: Permasolid 3:1 VHS Surfacers 5150

Art-No. 291 5150 3

TSCA INFORMATION: All Ingredients in this product are listed on EPA's TSCA Inventory of Chemical Substances.

## Section II - Ingredients

Ingredient	CAS-No.	Percent	Occupational Exposure Limits		Vapor Pressure hPa/20°C
			TLV	PEL	
2 - Butoxyethyl acetate	112-07-2	1.9	20 ppm	20 ppm	0.30
Methoxypropyl acetate	108-65-6	1.5	n.e.	n.e.	5.30
Butyl acetate	123-86-4	7.8	150 ppm	150 ppm	13.00
Zinc phosphate*	7779-90-0	7.2	n.e.	n.e.	n.e.
Soivents, total impurities*	proprietary	5.9	n.e.	n.e.	n.e.
Pigments	proprietary	62.0	n.e.	n.e.	n.e.
Filmformers, additives	proprietary	17.3	n.e.	n.e.	n.e.

## Section III - Physical Data

Boiling Range	124 - 198°C	Solubility in Water:	moderate
Vapor Density (Air=1)	>1	Vapor pressure:	1.20 hPa
Evaporation Rate (ether=1)	190	V.O.C. coating:	2.01 lbs/gal
Volatile Volume	29%	V.O.C. material:	2.01 lbs/gal
Specific Gravity (H <sub>2</sub> O=1)	1.79	HMIS (NFPA) rating (health - fire - reactivity)	1 - 2 - 0
Appearance and Odor	liquid, beige, typical		

## Section IV - Fire and Explosion Hazard Data

Flammability Classification:	OSHA: Class I C	Flash Point	23°C	LEL 0.9 Vol %
	DOT: Flammable Liquid			
	UN-NO.: 1263			
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> "Alcohol" Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Dry Chemical	<input type="checkbox"/> Water Fog	<input type="checkbox"/>	<input type="checkbox"/>

Unusual Fire and Explosion Hazards:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces.

Special Firefighting Procedures:

Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used fog nozzles are preferable. To protect firefighters from any hazardous decomposition products (see Sect. VI) full protective equipment, including self-contained breathing apparatus, is recommended.

\* contains ingredient which is known to the State of California to cause cancer and birth defects or other reproductive harm (California Proposition 65)  
\* ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.15 C.

n.a. = not applicable

n.e. = not established

Date: 1997-12-03

SPIES HECKER GmbH

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## Section V - Health Hazard Data

**Effects of Overexposure:** Inhalation: Irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma.

**Skin or eye contact:** Primary irritation

Repeated overexposure to solvent vapors may cause permanent brain and nervous system damage. Intentional misuse by purposely concentrating and inhaling organic solvent vapors may be harmful or fatal.

**Medical Conditions prone to aggravation by exposure:** Do not use this product if you have chronic (long-term) lung or breathing problems or if you have ever had a reaction to the ingredients stated in section II.

**Primary Route(s) of entry:** ☒ Dermal ☒ Inhalation ☐ Ingestion

**Emergency and First Aid Procedures:** Call a physician

Inhalation: Remove from exposure to fresh air. If not breathing give artificial respiration.

Eye contact: Flush immediately with plenty of water for at least 15 minutes.

Skin contact: Remove contaminated clothing. Wash immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Keep warm and quiet.

## Section VI - Reactivity Data

**Stability** ☐ Unstable ☒ Stable

**Hazardous Polymerization** ☐ May occur ☒ Will not occur

**Hazardous Decomposition Products** May produce hazardous fumes when heated to decomposition. Fumes may contain carbon monoxide/carbon dioxide

**Conditions to avoid** Unknown

**Incompatibility (materials to avoid):** Unknown

**Photochemically reactive solvents:** No

## Section VII - Spill or Leak Procedures

**Steps to be taken in case material is released or spilled:** Remove all sources of ignition (flames, hot surfaces, and sparks). Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools.

**Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations. Do not incinerate closed containers.

## Section VIII - Safe Handling and use Information

**Respiratory Protection:** Wear NIOSH approved respirator for organic vapors and paint, lacquer and enamel mists. Observe OSHA regulations for respirator use 29 CFR 1910.134. In all cases, please read manufacturer's instructions carefully to determine the type of airborne contaminants against which the respirator is effective.

**Ventilation:** Provide sufficient mechanical (general or local exhaust) ventilation to keep TLV and LEL below stated limits.

**Protective Gloves:** Impervious gloves required for prolonged or repeated contact.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other Protective Equipment:** Wear impervious clothing. Clothing must cover all exposed skin when spraying in an enclosed area.

**Hygienic Practices:** Eye washes and safety showers in the workplace is recommended. Wash hands thoroughly and before eating or smoking.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Keep containers tightly closed in a cool, dry, well-ventilated area away from all sources of ignition. Store large quantities in buildings designed and protected for storage of flammable or combustible liquids.

**Other Precautions:** Employees must be trained in safety measures that should be taken in handling this product.

The above information pertains to this product as currently formulated and is based on the information available at this time. Additions of reducers and other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

## **APPENDIX C**

### **LETTERS FROM NATIONAL PAINT & COATINGS ASSOCIATION AND DUPONT**

March 1, 2000

Dr. Eddy Huang, Ph.D.  
AVES (Affiliate of ATC Associates)  
50 East Foothill Boulevard  
Arcadia, California 91006



Dear Eddy:

As I informed your colleague Mr. Saunders previously, the members of the NPCA Automotive Refinish Coalition believe that the advanced lower VOC coatings that are currently being marketed in the South Coast Air Quality Air Management District (SCAQMD) should be reviewed by your study for potential future developments of coatings technology.

On going research and development efforts of the individual coatings companies is highly proprietary information. The companies do not feel comfortable providing it for your study. While they recognize that the information would be treated as confidential business information, they nonetheless remain concerned that, despite your best efforts or those of CARB, the information may nonetheless become public in some way. More fundamentally, however, there is a bigger concern. The information might be misleading. Current R&D efforts are no guarantee of what future coatings technology will be. Also the general trends in coatings technology developments in this area are adequately discussed in the literature.

One last note. In doing your study you should keep in mind that not all of the shops in existence today will be able to use the more advanced lower VOC automotive refinish coatings systems. In general the trend toward lower VOC coatings, irrespective of whether they are high solids solventborne systems or waterborne systems, will mean that adjustments of the coating to meet substrate and application conditions will not be feasible through adjustment of the amount of solvent in the coating. To meet these varying conditions, the shops will have to be comparatively more sophisticated in their equipment and configuration, e.g., drying equipment, enclosed drying booths.

Please let me know if I can be of further assistance.

Sincerely,

  
Jim Sell  
Senior Counsel



PaintExpo

1900 Rhode Island Avenue, NW • Washington, DC 20005-5597 • Phone: 202/462-6272 • Fax: 202/462-8549  
E-mail: [members@paint.org](mailto:members@paint.org) (NPCA members), or [npc2@paint.org](mailto:npc2@paint.org) (general public) • Web sites: [www.paint.org](http://www.paint.org); [www.paintexpo.com](http://www.paintexpo.com)



**DUPONT PERFORMANCE COATINGS**

**Operations**

***Safety, Health and Environmental***

March 7, 2000

Dr. Eddy Huang, Ph.D.  
AVES (Affiliate of ATC Associates)  
50 East Foothill Boulevard  
Arcadia, California 91006

Dear Eddy:

As I informed you in our phone conversation yesterday, DuPont is not prepared to offer R&D coatings candidates for your planned study. What we can do is to identify the lowest VOC containing products that DuPont offers commercially to the refinish industry. The best example of these can be found in the VOC COMPLIANCE CHART for the SCAQMD; a copy of the chart is attached for your inspection.

You can purchase selected samples for your study from nearby jobber locations given below. I have tried to identify the closest locations based on your above address.

1. D'Angelo & Sons, 1260 S. Central Ave., Glendale, Ca (818-244-7246)
2. El Monte Auto Paint, 3435 N. Tyler Ave., Box 4309, El Monte, Ca 91731  
(626-401-3598)
3. Finishmaster, 2591 E. Foothill Blvd , Pasadena, Ca 91107 (626-795-4319)

The jobbers also have Product Data Sheets and other useful user information that could be of help in your study. They could also be a good source of some local body shop locations that could provide direct effects on coatings based on the shop's equipment use and configuration.

Please let me know if I can be of further assistance.

Sincerely,

Karl R. Schultz  
Environmental Consultant